



LIBERTY
AV SOLUTIONS



NEW TECHNOLOGY GUIDE

SPRING/SUMMER 2015





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Liberty continues to develop and broaden its line of AV solutions in order to better provide installers with the products required to get every job done right and on time. Beyond a steady stream of new innovations, Liberty offers a number of value-added services & customer-focused resources that make it the only logical choice when it comes time to choose a full-service business partner.



AS-2H DUAL HDMI AUTO-SWITCHING

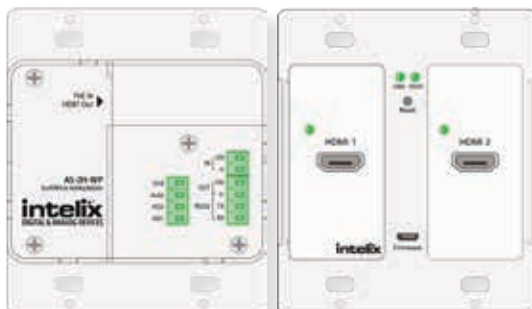
AS-2H DUAL HDMI AUTO-SWITCHER WITH HDMI & HDBASET OUTPUT



AS-2H-WP-B WALL PLATE



AS-2H-WP-W WALL PLATE



The **Intelix AS-2H** is an under table mounted switcher designed to be the primary PC interface for classrooms, boardrooms & conference centers. It features two HDMI inputs.

The AS-2H utilizes HDBaseT technology to extend the digital output up to 60 meters away using solid core shielded Category 5e or greater cable. This transmitter device is compatible with several Intelix HDBaseT receivers, but is designed to work primarily with the DIGI-HD60C-R. The unit features multiple EDID modes to eliminate user confusion, and incompatible video formats. An HDMI output is available for use to connect to a local display.

KEY FEATURES

- Two HDMI inputs
- HDMI and HDBaseT output—60m Max Distance
- Automatically switches input to active video
- RS232, Auto, and Dry Contact Closure for control of device
- PoE (Power over Ethernet) or 12V DC local power
- Display Control Software to control TV or projector with RS232 commands—automatically turns display on/off
- Customizable power management system when not in use

AS-2H TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Inputs	Two HDMI Type A receptacle
HDBaseT Port	One 8P8C port (shielded RJ45)
HDMI Output	One HDMI Type A receptacle
Power	One 5.5 mm OD, 2.6mm ID barrel
RS232 Port	One 3-pin removable terminal block connector
Contact Closures	One 4-pin removable terminal block connector
Firmware Port	One USB Type B Micro receptacle

SUPPORTED AUDIO, VIDEO AND CONTROL

Video Resolutions	SMPTE: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p VESA: Resolutions up to 1920 x 1200
Maximum Video Compatibility at 60m	Deep Color 36/30/24 Bit at 1080p
Maximum Video Compatibility at 40m	Deep Color 48 Bit at 1080p, 3D (HDMI Input)
Video Compliance	HDMI & HDCP (selectable)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD & DTS-HD master audio
Analog Audio	Analog stereo line-level (converted to 2ch 24bit PCM 48kHz)
ARC (Audio Return Channel)	No
HEC (HDMI Ethernet Channel)	No
CEC (Consumer Electronics Control)	Yes
Baud Rate (Wall plate control)	9600
Supported Baud Rates (Display Control)	9600, 19200, 57600, 115200

HDBASET SIGNAL CHARACTERISTICS

Maximum Distance	60m
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with 568B pin out
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100m

CHASSIS AND ENVIRONMENTAL

Construction	Black aluminum
Dimensions (H x W x D)	30mm x 172mm x 84mm (1.18 in x 6.77 in x 3.31 in)
Shipping Weight	0.68 kg (11.5 lbs.)
Operating Temperature	0° to +40°C (+32° to +104°F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60°C (+14° to +140°F)
Storage Humidity	20% to 90%, Non-condensing

POWER AND REGULATORY

Power Supply	12V DC 1A or PoE
Power Consumption	10 watts
Default Automatic Standby Mode	30 minutes no signal
ESD Protection	16kV
Regulatory	CE, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	HDCP, Link, HDMI 1, HDMI 2 & power
Included Accessories	Installation guide, power supply, mounting brackets with screws, 4-pin removable screw terminal, 3-pin removable screw terminal, RS232 cable (3-pin to de9), rubber feet
HDBaseT Receiver (A/V, PoE, Control) Compatibility	DIGI-HD60C-R, DIGI-HDX-R, FLX-64
HDBaseT Receiver (A/V, Control) Compatibility	FLX-B14
HDBaseT Receiver (A/V & PoE) Compatibility	DIGI-HD60-R

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



Need Help?

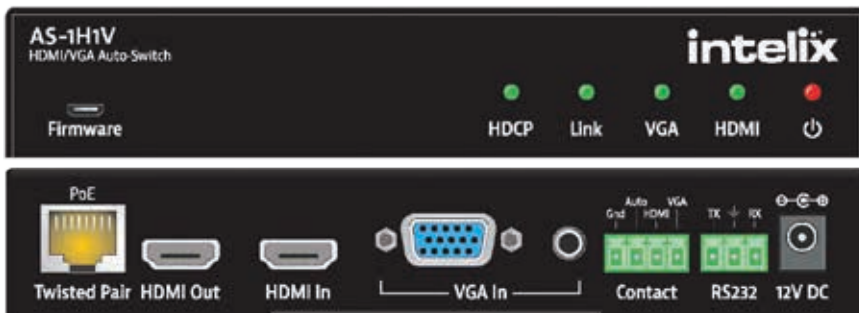
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AS-1H1V HDMI/VGA AUTO-SWITCHING

AS-1H1V HDMI & VGA AUTO-SWITCH

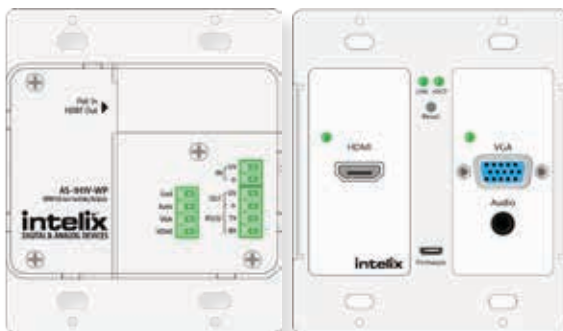


The **Intelix AS-1H1V** is an under table mounted switcher designed to be the primary PC interface for classrooms, boardrooms, and conference centers. It features VGA + Audio to HDMI conversion and an HDMI input.

AS-1H1V-WP-B HDMI & VGA AUTO-SWITCHING WALLPLATE



AS-1H1V-WP-W



The **Intelix AS-1H1V-WP** is a two-gang, Decora-style wallplate designed to be the primary PC interface for classrooms, boardrooms, and conference centers.

AS-1H1V TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Inputs	One HDMI Type A receptacle
VGA Input	One HD15-F receptacle
Analog Audio Inputs	One 3.5mm TRS receptacle
HDBaseT Port	One 8P8C port (shielded RJ45)
HDMI Output	One HDMI Type A receptacle
Power	One 5.5 mm OD, 2.6mm ID barrel
RS232 Port	One 3-pin removable terminal block connector
Contact Closures	One 4-pin removable terminal block connector
Firmware Port	One USB Type B Micro receptacle

SUPPORTED AUDIO, VIDEO AND CONTROL

Video Resolutions	SMPTE: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p VESA: Resolutions up to 1920x1200 HDMI Color Depth: 24, 30, 36, 48bit
Maximum Video Compatibility at 60m	Deep Color 36/30/24 Bit at 1080p
Maximum Video Compatibility at 40m	Deep Color 48 Bit at 1080p, 3D (HDMI Input)
Video Compliance	HDMI & HDCP (Selectable)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD & DTS-HD Master Audio
Analog Audio	Analog stereo line-level (Converted to 2ch 24bit PCM 48kHz)
ARC (Audio Return Channel)	No
HEC (HDMI Ethernet Channel)	No

CEC (Consumer Electronics Control)	Yes (HDMI Pass-through Only)
Baud Rate (Wall plate control)	9600
Supported Baud Rates (Display Control)	9600, 19200, 57600, 115200

HDBASET SIGNAL CHARACTERISTICS

Maximum Distance	60m
Cable Requirements	Solid core shielded Cat 5e, Cat 6 or greater with 568B pin out
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100m

CHASSIS AND ENVIRONMENTAL

Construction	Black aluminum
Dimensions (H x W x D)	30mm x 172mm x 84mm (1.18 in x 6.77 in x 3.31 in)
Shipping Weight	0.68 kg (11.5 lbs.)
Operating Temperature	0° to +40°C (+32° to +104°F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60°C (+14° to +140°F)
Storage Humidity	20% to 90%, Non-condensing

POWER AND REGULATORY

Power Supply	12V DC 1A or PoE (Power-Over-Ethernet)
Power Consumption	10 watts
Default Automatic Standby Mode	30 minutes no signal
ESD Protection	16kV
Regulatory	CE, RoHS

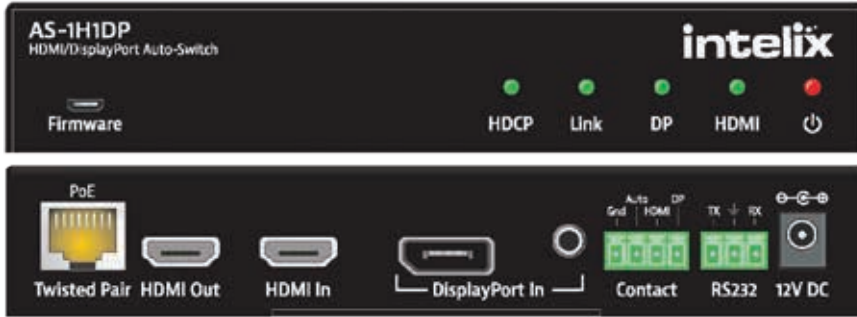
OTHER

Warranty	2 years
Diagnostic Indicators	HDCP, Link, VGA, HDMI & Power
Included Accessories	Installation guide, power supply, mounting brackets with screws, 4-pin removable screw terminal, 3-pin removable screw terminal, rs232 cable (3-pin to de9), rubber feet
HDBaseT Receiver (A/V, PoE, Control) Compatibility	DIGI-HD60C-R, DIGI-HDX-R, FLX-64
HDBaseT Receiver (A/V, Control) Compatibility	FLX-BI4
HDBaseT Receiver (A/V and PoE) Compatibility	DIGI-HD60-R

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Category 6 rating unless noted otherwise.

AS-1H1DP HDMI/DISPLAYPORT AUTO-SWITCHING

AS-1H1DP HDMI & DISPLAYPORT AUTO-SWITCH

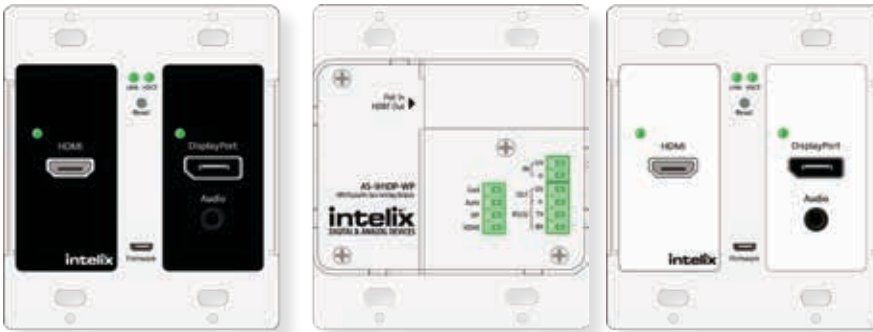


The **Intelix AS-1H1DP** is an under table mounted switcher designed to be the primary PC interface for classrooms, boardrooms & conference centers.

It features DisplayPort + Audio to HDMI conversion and an HDMI input. The AS-1H1DP will detect if the DisplayPort signal has an embedded audio signal to determine when to access the analog audio input port.

AS-1H1DP-WP-B HDMI & DISPLAYPORT AUTO-SWITCHING WALLPLATE

AS-1H1DP-B-WP



The Intelix **AS-1H1DP-WP** is a two-gang, Decora-style wallplate designed to be the primary PC interface for classrooms, boardrooms, and conference centers.

AS-1H1DP TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Inputs	One HDMI Type A receptacle
DisplayPort Input	One DisplayPort receptacle
Analog Audio Inputs	One 3.5mm TRS receptacle
HDBaseT Port	One 8P8C port (shielded RJ45)
HDMI Output	One HDMI Type A receptacle
Power	One 5.5 mm OD, 2.6mm ID barrel
RS232 Port	One 3-pin removable terminal block connector
Contact Closures	One 4-pin removable terminal block connector
Firmware Port	One USB Type B Micro receptacle

SUPPORTED AUDIO, VIDEO AND CONTROL

Video Resolutions	SMPTE: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p VESA: Resolutions up to 1920 x 1200
Maximum Video Compatibility at 40m	Deep Color 36/30/24 Bit at 1080p
Maximum Video Compatibility at 60m	Deep Color 48 Bit at 1080p, 3D (HDMI Input)
Video Compliance	HDMI & HDCP (Selectable)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD & DTS-HD Master Audio
Analog Audio	Analog stereo line-level (Converted to 2ch 24bit PCM 48kHz)
ARC (Audio Return Channel)	No
HEC (HDMI Ethernet Channel)	No

CEC (Consumer Electronics Control)	Yes (HDMI Pass-through Only)
Baud Rate (Wall plate control)	9600
Supported Baud Rates (Display Control)	9600, 19200, 57600, 115200

HDBASET SIGNAL CHARACTERISTICS

Maximum Distance	60m
Cable Requirements	Solid core shielded Cat 5e, Cat 6 or greater with 568B pin out
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100m

CHASSIS AND ENVIRONMENTAL

Construction	Black aluminum
Dimensions (H x W x D)	30mm x 172mm x 84mm (1.18 in x 6.77 in x 3.31 in)
Shipping Weight	0.68 kg (11.5 lbs.)
Operating Temperature	0° to +40°C (+32° to +104°F)
Operating Humidity	20% to 90%, non-condensing
Storage Temperature	-10° to +60°C (+14° to +140°F)
Storage Humidity	20% to 90%, non-condensing

POWER AND REGULATORY

Power Supply	12V DC 1A or PoE
Power Consumption	10 watts
Default Automatic Standby Mode	30 minutes no signal
ESD Protection	16kV
Regulatory	CE, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	HDCP, Link, DisplayPort (DP), HDMI & Power
Included Accessories Installation guide, power supply, mounting brackets with screws, 4-pin removable screw terminal, 3-pin removable screw terminal, rs232 cable (3-pin to de9), rubber feet	
HDBaseT Receiver (A/V, PoE, Control) Compatibility	DIGI-HD60-C-R, DIGI-HDX-R, FLX-64
HDBaseT Receiver (A/V, Control) Compatibility	FLX-BI4
HDBaseT Receiver (A/V and PoE) Compatibility	DIGI-HD60-R

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Category 6 rating unless noted otherwise.

DIGI-P51 PRESENTATION SWITCHER

DIGI-P51 BLACK PRESENTATION SWITCHER - 5 INPUT X 1 OUTPUT



The Intelix **DIGI-P51** allows the integration of multiple analog and digital devices into a high-definition environment. Mounting options include wall, under table, or resting on a shelf. The DIGI-P51 allows selections of five different sources, and will simultaneously scale the selected video to an HDMI output. The unit features three HDCP compliant HDMI inputs and two VGA inputs with discrete analog audio inputs for each input connection. The VGA inputs can be configured to support YPbPr (component video) and CV (composite video) video formats.

DIGI-P51 TECH SPECS

INPUT CONNECTIONS	
HDMI Inputs	Three HDMI type A
VGA Inputs	Two HD15-F
Analog Audio Inputs	Five 3-Pole/3.5mm Euroblock
Microphone Input	One 3-Pole/3.5mm Euroblock
Control (Front Panel)	Push Button
Control (Rear Panel)	RS232 via 3-Pole/3.5mm Euroblock
12V DC Power	One threaded barrel (5.5mm OD; 2.6mm ID)
Firmware Upgrade	USB Type A female
IR Input	One 3.5 mm jack (TRS)
OUTPUT CONNECTIONS	
HDMI Output	One HDMI type A
Stereo Analog Audio	One 3-Pole /3.5mm Euroblock
VIDEO PERFORMANCE	
HDMI Input Bandwidth	4.95Gbps (1.65Gbps per color)
HDMI Input Resolutions	640 × 480: 60/72/75/85Hz, 800 × 600: 56/60/72/75/85Hz, 1024 × 768: 60/70/75/85Hz, 1280 × 768: 60Hz, 1280 × 1024: 60/75Hz, 1360 × 768: 60Hz, 720 × 480i/p (4:3 & 16:9), 720 × 576i/p (4:3 & 16:9), 1280 × 720p: 50/60Hz, 1360 × 768: 60Hz, 1440 × 900: 60Hz, 1600x1200: 60Hz, 1680 × 1050: 60Hz, 1920 × 1080i: 25/30Hz, 1920 × 1080p: 50/60Hz, 1920 × 1200: 60Hz
HDMI Input Compatibility	HDMI 1.3, DVI-D
HDMI Input Compliance	HDCP compliant
VGA Input Bandwidth	375MHz
VGA Input Resolutions	640 × 480: 60/72Hz, 720 × 400: 60Hz, 800 × 600: 60/72/75Hz, 1024×768: 60/70/75Hz, 1280 × 720: 60Hz, 1280 × 768: 60Hz, 1280x960: 60Hz, 1280 × 1024: 60/75Hz, 1360 × 768: 60Hz, 1440 × 900: 60Hz, 1600 × 1200: 60Hz, 1680 × 1050: 60Hz, 1920 × 1080: 60Hz, 1920 x 1200: 60Hz
VGA Input Video Impedance	75ohm
VGA Input Maximum Pixel Clock	145MHz
VGA Input Video Gain	0dB
VGA Input Signal Level	0.5V~2.0Vp-p
Output Resolutions	1920 × 1200, 1920 × 1080 (1080p), 1600 × 1200, 1360 × 768, 1280 × 720 (720p), 1280 × 800, 1024 × 768

AUDIO PERFORMANCE	
Analog Input Signal Level	10dBv Nominal
Analog Input Impedance	>10k ohm
MIC Input Signal Level	-48dB Nominal (mic input), +4dBu Nominal (line input)
MIC Input Impedance	600 ohm (mic input), >10k ohm (line input)
ADC Format	24bit, 48kHz, 2ch LPCM
Line Level Output Impedance	50 ohm
Frequency Response	20Hz-20kHz
Stereo Channel Separation	>80dB @ 1kHz
Common Mode Rejection	>90dB @ 20Hz-20kHz
CONTROL PARAMETERS	
RS232	9600 baud
CHASSIS AND ENVIRONMENTAL	
Enclosure	Painted aluminum
Dimensions	44mm x 220mm x 148mm (1.73 in x 8.66in x 5.83in) – 1RU
Shipping Weight	0.67 kg (1.48 lbs.)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
POWER AND REGULATORY	
PoE Standard (HDBT/ PoE port) to extender	802.3af
Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	12VDC / 2.0A
Power Consumption	24 watts (max)
ESD Protection	±15 kV
DIGI-P52 Regulatory	FCC, CE, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS
Regulatory	CE, RoHS

OTHER	
Warranty	2 years
Included Accessories IR remote, IR receiver, wall mount power supply, power supply adapters (US, EU, UK, AU), four rubber feet, serial cable (de9-f to euroblock), seven 3-pole/3.5mm euroblock connectors (installed on product), two FLX-RBOCA cables ((40mm (15.75 in.) Male HD15 to three female RCA connectors (red, green, blue)), two (2) mounting rails with chassis screws, installation guide	
Compatible Receivers (A/V Only)	DIGI-HD70-R, DIGI-HD60-R
Compatible Receivers (A/V and Control)	DIGI-HDE-R, DIGI-HDX-R, DIGI-HD60C-R, FLX-BI4
Compatible Receivers (A/V and PoE)	DIGI-HD60-R
Compatible Receivers (A/V, Control and PoE)	DIGI-HDX-R, DIGI-HD60C-R
Optional Accessories (sold separately)	IR Transmitter (DIGIB-EMT)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electric interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Category 6 rating unless noted otherwise.

DON'T FORGET THE CABLES!

Liberty

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New M2-HDSEM HDMI Cables!

KEY FEATURES

- 3 HDMI & 2 universal analog (VGA, YPbPr, CVideo) inputs
- HDMI output
- Auto switch inputs when universal inputs are set to VGA
- Mic & Line level mixing with phantom power
- Line level audio de-embedding
- Analog audio embedding on each input channel
- Output scaling to 7 fixed resolutions
- Front panel, IR & RS232 control
- CEC enabled for source control
- Includes international power supply (AUS, EU, UK & US)
- Includes under-table mounting brackets

DIGI-P52 PRESENTATION SWITCHER



The Intelix **DIGI-P52** integrates multiple analog and digital devices into a high-definition environment. Mounting options: wall, under table or on a shelf. The DIGI-P52 allows a selection of five different sources, and will scale the selected video to mirrored HDMI and HDBaseT outputs. The DIGI-P52 can be controlled in many different ways.

When the VGA inputs are defined as PC signal inputs, the DIGI-P52 can be configured to autoswitch to any source once connected to the switcher. The front panel offers source selection, output resolution & volume control. Third party control systems can utilize RS232 rear panel, RS232 extended (with a compatible HDBaseT receiver) & rear panel IR control.

DIGI-P52 TECH SPECS

INPUT CONNECTIONS

HDMI Inputs	Three HDMI type A
VGA Inputs	Two HD15-F
Analog Audio Inputs	Five 3-Pole/3.5mm Euroblock
Microphone Input	One 3-Pole/3.5mm Euroblock
Control (Front Panel)	Push Button
Control (Rear Panel)	RS232 via 3-Pole/3.5mm Euroblock, RS232 via HDBaseT Output (8P8C-F), IR via 3.5mm TRS
12V DC Power	One Threaded Barrel (5.5mm OD; 2.6mm ID)
Firmware Upgrade	USB Type A Female
IR Input	One 3.5 mm jack (TRS)

OUTPUT CONNECTIONS

HDMI Output	One HDMI type A
Stereo Analog Audio	One 3-Pole/3.5mm Euroblock
HDBaseT Output	One 8P8C-F
IR Outputs	Five 3.5 mm jack (TS)

VIDEO PERFORMANCE

HDMI Input Bandwidth	4.95Gbps (1.65 Gbps per color)
HDMI Input Resolutions	640 × 480: 60/72/75/85Hz, 800 × 600: 56/60/72/75/85Hz, 1024 × 768: 60/70/75/85Hz, 1280 × 768: 60Hz, 1280 × 1024: 60/75Hz, 1360 × 768: 60Hz, 720 × 480i/p (4:3 & 16:9), 720 × 576i/p (4:3 & 16:9), 1280 × 720p: 50/60Hz, 1360 × 768: 60Hz, 1440 × 900: 60Hz, 1600 × 1200: 60Hz, 1680 × 1050: 60Hz, 1920 × 1080i: 25/30Hz, 1920 × 1080p: 50/60Hz, 1920 × 1200: 60Hz
HDMI Input Compatibility	HDMI 1.3, DVI-D
HDMI Input Compliance	HDCP Compliant
VGA Input Bandwidth	375MHz
VGA Input Resolutions	640 × 480: 60/72Hz, 720 × 400: 60Hz, 800 × 600: 60/72/75Hz, 1024 × 768: 60/70/75Hz, 1280 × 720: 60Hz, 1280 × 768: 60Hz, 1280 × 960: 60Hz, 1280 × 1024: 60/75Hz, 1360 × 768: 60Hz, 1440 × 900: 60Hz, 1600 × 1200: 60Hz, 1680 × 1050: 60Hz, 1920 × 1080: 60Hz, 1920 × 1200: 60Hz
VGA Input Video Impedance	75ohm
VGA Input Maximum Pixel Clock	145MHz
VGA Input Video Gain	0dB
VGA Input Signal Level	0.5V~2.0Vp-p
Output Resolutions	1920 × 1200, 1920 × 1080 (1080p), 1600 × 1200, 1360 × 768, 1280 × 720 (720p), 1280 × 800, 1024 × 768

AUDIO PERFORMANCE

Analog Input Signal Level	10dBV Nominal
Analog Input Impedance	>10k ohm
MIC Input Signal Level	-48dB Nominal (mic input), +4dBu Nominal (line input)
MIC Input Impedance	600ohm (mic input), >10kohm (line input)
ADC Format	24bit, 48kHz, 2ch LPCM
Line Level Output Impedance	50 ohm
Frequency Response	20Hz-20kHz
Stereo Channel Separation	>80dB @ 1kHz
Common Mode Rejection	>90dB @ 20Hz-20kHz

EXTENDER SIGNAL CHARACTERISTICS

Maximum Distance per Linked Unit (Cat 6)	60m (198 ft)
Cable Requirements	Category 6 or 6A with 568B pin out
Bandwidth	6.75 Gbps
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p

CHASSIS AND ENVIRONMENTAL

Enclosure	Painted aluminum
Dimensions	44mm x 220mm x 148mm (1.73 in x 8.66in x 5.83in) – 1RU
Shipping Weight	0.67 kg (1.48 lbs.)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing

POWER AND REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	12VDC / 2.0A
Power Consumption	24 watts (max)
ESD Protection	±15 kV
DIGI-P52 Regulatory	FCC, CE, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS
Regulatory	CE, RoHS

KEY FEATURES

FIVE TOTAL INPUT

Three HDCP compliant HDMI, Two VGA

TWO OUTPUT

Simultaneous HDBaseT, HDMI

AUTO SWITCH INPUTS

when universal inputs are set to VGA

- Mic/line mixing with phantom power
- Line level audio de-embedding
- Analog audio embedding on each input channel
- Output scaling to 7 fixed resolutions
- Front panel, IR & RS232 control
- CEC enabled for source control
- RS232 passthrough for control of display
- Included international power supply
- Included under-table mounting brackets

OTHER

Warranty	2 years
Included Accessories	IR remote, IR receiver, wall mount power supply, power supply adapters (US, EU, UK, AU), four rubber feet, serial cable (DE9-f to euroblock), seven 3-pole/3.5mm euroblock connectors (installed on product), two FLX-RBOCA cables 40mm (1.57 in.) Male HD15 to three female RCA connectors (red, green, blue), two mounting rails with chassis screws, installation guide
Compatible Receivers (A/V Only)	DIGI-HD70-R, DIGI-HD60-R
Compatible Receivers (A/V and Control)	DIGI-HDE-R, DIGI-HDX-R, DIGI-HD60C-R, FLX-BI4
Compatible Receivers (A/V and PoE)	DIGI-HD60-R
Compatible Receivers (A/V, Control and PoE)	DIGI-HDX-R, DIGI-HD60C-R
Optional Accessories (sold separately)	IR Transmitter (DIGIB-EMT)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Category 6 rating unless noted otherwise.



DL-AR
HDMI MOBILE
ADAPTER RING
GENIOUS!

DIGI-P122 / DIGI-P123 PRESENTATION SWITCHERS

DIGI-P122



DIGI-P123



The Intelix **DIGI-P122** & **DIGI-P123** presentation switchers replace a rack full of audio-visual equipment with a compact, easy-to-integrate solution designed specifically for demanding commercial applications. Each unit combines Intelix's award-winning switching & extension technology with scaling, mic/line mixing, independent channel volume control and speaker

amplification. Plus, improved video processing delivers pristine video in both 16 × 9 & 16 × 10 output aspect ratios. Forget the clutter of traditional corporate AV, education and hospitality systems—Intelix delivers features and performance at a price the others simply can't touch.

KEY FEATURES

TWELVE (12) TOTAL INPUTS Four HDMI, Four VGA, Four A/V

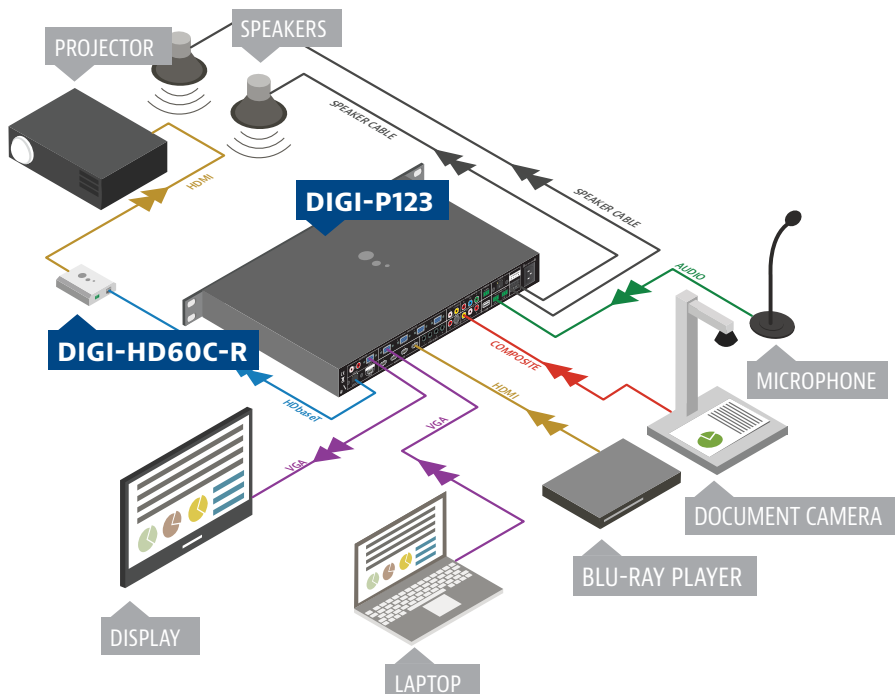
TWO (2) OUTPUTS (DIGI-P122) HDMI, VGA

THREE (3) OUTPUTS (DIGI-P123) HDMI, VGA, HDBaseT extender

- 16 × 9 and 16 × 10 output scaling
- Twisted pair extension up to 230ft
- Image position adjustment
- RS232, Ethernet, IR and front panel control
- Web GUI accessible from internet browser
- Audio embedding and de-embedding
- Built-in 20W speaker amplification
- Mic/line mixing with volume control
- Compact 1 RU design
- Three second average switching times when scaling
- Internal power supply

APPLICATION

- Easy integration of legacy components into a digital environment
- Analog to digital conversion and scaling up to 1080p
- Ideal for corporate facilities, churches, schools, and conference centers



FULLY UPDATED TECH SPECS
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DIGI-P122 / DIGI-P123 PRESENTATION SWITCHERS

Twelve Analog and Digital Inputs



Three Simultaneously
Live Output Options



Built-in Mic/Line Mixing
with Volume Control



Built-in 20W, 4/8Ω
Speaker Amplification



Built-in Internal
Power Supply

APPLICATION

- Easy integration of legacy components into a digital environment
- Analog to digital conversion & scaling up to 1080p
- Ideal for corporate facilities, churches, schools & conference centers

DIGI-P122/P123 TECH SPECS

INPUT CONNECTIONS

HDMI Inputs	Four (4) HDMI type A
VGA Inputs	Four (4) HD15-F, Four (4) 3.5mm TRS-F
Composite Video 1	One (1) RCA-F (video), Two (2) RCA-F (stereo audio shared with S-Video 3)
YPbPr 2 (Component Video)	Three (3) RCA-F (video), Two (2) RCA-F (stereo audio shared with Composite Video 4)
S-Video 3	One (1) 4PMD-F (video), Two (2) RCA-F (stereo audio shared with Composite Video 1)
Composite Video 4	Four (4) HDMI type A
Microphone Input (Line Level)	Four (4) HDMI type A
Microphone Input (Mic Level)	Four (4) HDMI type A
Control (Front Panel)	Four (4) HDMI type A
Control (Rear Panel)	Four (4) HDMI type A
Power Input	Four (4) HDMI type A
Firmware Upgrade	Four (4) HDMI type A

OUTPUT CONNECTIONS

HDMI Output	One (1) HDMI type Az
VGA Output	One (1) HD15-F
Stereo Analog Audio	Two (2) RCA (stereo audio)
HDBaseT Output (DIGI-P123)	One (1) 8P8C-F
Speaker Output	One (1) 4-Pole/ 5.08mm Euroblock

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

VIDEO PERFORMANCE

HDMI Input Bandwidth	4.95Gbps (1.65Gbps per color)
HDMI Input Resolutions	640 × 480 @ 60Hz, 640 × 480 @ 72Hz, 640 × 480 @ 75Hz, 800 × 600 @ 56Hz, 800 × 600 @ 60Hz, 800 × 600 @ 72Hz, 800 × 600 @ 75Hz, 1024 × 768 @ 60Hz, 1024 × 768 @ 70Hz, 1024 × 768 @ 75Hz, 1280 × 1024 @ 75Hz, 1360 × 768, 1920 × 540, 1920 × 1080i, 1920 × 1080p
HDMI Input Compatibility	HDMI 1.3, DVI-D
HDMI Input Compliance	HDCP Compliant**
VGA Input Bandwidth	375MHz
VGA Input Resolutions	640 × 480 @ 60Hz, 640 × 480 @ 72Hz, 720 × 400 @ 70Hz, 800 × 600 @ 60, 800 × 600 @ 72Hz, 800 × 600 @ 75Hz, 1024 × 768 @ 60 Hz, 1024 × 768 @ 70Hz, 1024 × 768 @ 75Hz, 1280 × 1024 @ 75Hz, 1280 × 768, 1360 × 768 @ 60Hz, 1920 × 1080
VGA Input Compatibility	RGBHV, RGBs, RGSB, RsGsBs
Composite, S-Video Input Bandwidth	150MHz
Composite, S-Video Input Compatibility	NTSC 3.58, NTSC 4, 42, PAL, SECAM
Component Video Input Bandwidth	170MHz
Component Video Input Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
Output Resolutions	1920 × 1080, 1360 × 768, 1280 × 720, 1280 × 800, 1024 × 768
Video Impedance	75 ohm
Maximum Pixel Clock	145MHz
Video Gain	0dB
Signal Level	0.5V~2.0Vp-p

AUDIO PERFORMANCE

RCA/3.5mm Input Signal Level	-10dBv Nominal
RCA/3.5mm Input Impedance	>10k ohm
MIC Input Signal Level	-48dB Nominal (Mic input), +4dBu Nominal (Line Input)
MIC Input Impedance	600 ohm (Mic input), >10k ohm (Line input)
ADC Format	24bit, 48kHz, 2ch LPCM
Line Level Output Impedance	50 ohm
Speaker Output	RGBHV, RGBs, RGSB, RsGsBs
Frequency Response	150MHz
Stereo Channel Separation	NTSC 3.58, NTSC 4, 42, PAL, SECAM
Common Mode Rejection	>90dB @ 20Hz~20kHz

EXTENDER SIGNAL CHARACTERISTICS

Maximum Distance per Linked	1920 × 1080, 1360 × 768, 1280 × 720, 1280 × 800, 1024 × 768
Unit (Cat 5e)	75 ohm
Cable Requirements	145MHz
Bandwidth	0dB
Input DDC Signal	0.5V~2.0Vp-p
Input Video Signal	0.5 to 1.0Vp-p

CHASSIS & ENVIRONMENTAL

Enclosure	Painted Aluminum
Dimensions	483mm × 235mm × 44mm (19.0 × 9.25 in × 1.73) -1RU
Shipping Weight	3.74kg (8.25lbs.)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing



The **FLX-44** provides four HDMI inputs, four HDBaseT extender outputs and two parallel HDMI outputs — both the HDMI and HDBaseT outputs are live simultaneously. Each output channel features audio de-embedding, embedded RS232 and IR control for source and destination control. Plus, built-in power over HDBaseT (PoH) provides power to remote HDBaseT receivers.

KEY FEATURES

FOUR HDMI INPUTS

FOUR HDBaseT EXTENDER OUTPUTS

AUDIO DE-EMBEDDING, EMBEDDED RS232 & IR CONTROL

TWO PARALLEL HDMI OUTPUTS

- Twisted pair extension up to 60m (200ft)
- Matrix powers remote HDBaseT receivers
- Backlit crystal buttons for easy control
- PoH for remotely powering Intelix HDBaseT receivers
- RS232 and IR transmission for display control
- IR callback for source control
- 3D compatible
- Audio de-embedding per output
- Front panel, RS232, IR & ethernet control
- Selectable HDCP compliance
- Built-in ESD protection per channel

FLX-44 TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Inputs	Four (4) HDMI Type A Receptacle Connector (1 per input)
HDMI Outputs	Two (2) HDMI Type A Receptacle Connector (1 per output)
HDBaseT Outputs	Four (4) 8P8C port (Shielded RJ45) (1 per output)
IR Inputs	Four (4) 3.5 mm jack (TRS)
IR All In	One (1) 3.5 mm jack (TRS)
IR Outputs	Four (4) 3.5 mm jack (TS) (1 per output)
IR Eye	One (1) 3.5 mm jack (TRS)
RS232 Tunnel	Four (4) 3-pole Removable Euroblock Connector (3.5mm)
Audio Outputs	Four (4) 3-pole Removable Euroblock Connector (3.5mm)
48V DC Power	One (1) Amphenol 4pin CPC Female (11-4)
Control, Rear Panel	RS232 via DE-9, TCP/IP via 8P8C, IR via 3.5mm TRS
Control, Front Panel	Push Button, IR

EXTENDER SIGNAL CHARACTERISTICS

Cable Requirements	Category 5e, 6, or 6A with 568B pin out
Bandwidth	6.75 Gbps
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
Supported IR Carrier Frequency	33-55 kHz at 5 volts

CHASSIS AND ENVIRONMENTAL

Enclosure	Painted Aluminum
Dimensions	435mm x 235mm x 44mm (17.13 x 9.25 x 1.73)
Rack Spacing	1 RU
Shipping Weight	2.27 kg (5 lbs)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing

POWER, ESD, AND REGULATORY

Power Supply Input	100V-240VAC / 1.8A
Power Supply Output	48vDC / 5A
Power Consumption	150 watts (max)
ESD Protection	15kV
DIGI-44B Regulatory	CE, RoHS
Power Supply Regulatory	UL, FCC, CCC, CE, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	LCD output status & power LED
Included Accessories	Installation Guide, IR Remote, IR Emitter (4 ea), IR Receiver (4 ea), RS232 cable, US Power Cable and Power Supply, Mounting Brackets with screws

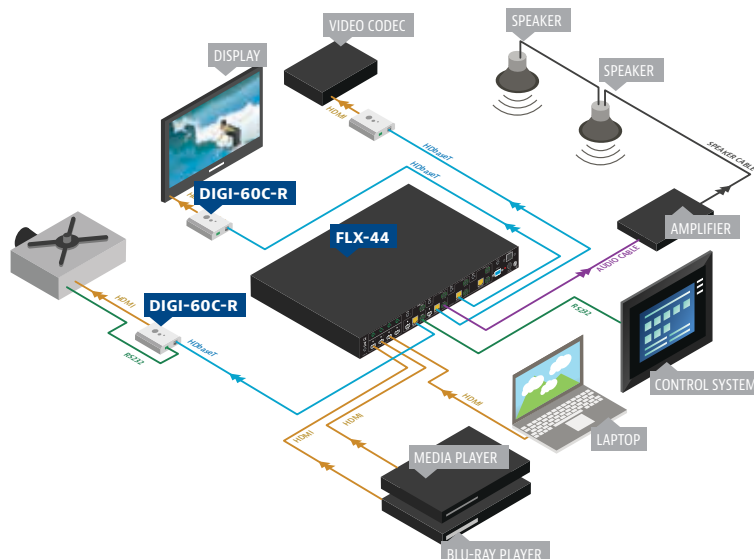
Compatible Receivers

A/V Only	DIGI-HD70-R
A/V, IR & RS232	DIGI-HDE-R
A/V, IR, RS232 & PoH	DIGI-HD60C-R

SUPPORTED AUDIO AND VIDEO

HDTV Video Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
VESA Video Resolutions	Up to 1920x1200
Embedded Audio Compatibility	Up to PCM 5 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Maximum Distance per Linked	6.75 Gbps
Unit (Cat 5e)	60m (197')
Maximum Distance per Linked	1080i/2.0, 1080p 3D/2.0, 1080p/2.0, 1080p/5.1, 1080p/7.1, Copy and Use EDID from display
Unit (Cat 5e) @1080p 3D	35m (115')

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



FLX-64 MATRIX SWITCHER



FLX-64 TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Inputs (Inputs 1 through 4)	Four HDMI Type A receptacle
HDBaseT Inputs (Inputs 5 & 6)	Two 8P8C Port (shielded RJ45 female)
Balanced Analog Audio Inputs (Inputs 1 & 2 only)	Two 5-Pole/3.5mm Euroblock
IR Input Tunnel (Inputs 5 & 6 only)	Two 3.5mm TRS
IR Outputs (Inputs 1 through 4)	Four 3.5mm TRS
HDMI Outputs (Outputs 1 & 2 only)	Two HDMI Type A receptacle
HDBaseT Outputs	Four 8P8C Port (Shielded RJ45 female)
Balanced Analog Audio Outputs	Four 5-Pole/3.5mm Euroblock
RS232 Output Tunnel	Four 3-Pole/3.5mm Euroblock
IR All In	One 3.5mm TRS
IR Eye	One 3.5mm TRS
TCP/IP	One 8P8C Port (Shielded RJ45 female)
RS232	One DE9 Port female
AC Power Inlet	IEC C14

SUPPORTED AUDIO, VIDEO & CONTROL

Maximum Video Compatibility at 60m	Deep Color 36/30/24 Bit at 1080p
Maximum Video Compatibility at 35m	Deep Color 48 Bit at 1080p % 3D
Maximum Passive HDMI Cable Distance	5m (16.4ft)
Video Compliance	HDMI and HDCP
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD & DTS-HD Master Audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
Analog Audio Pinout	Left +, Left -, Ground, Right +, Right -
TCP/IP Speed	100BaseT
RS232 Baud Rate	9600, 19200, 38400 & 115200 baud
IR Carrier Frequency Range	33-55kHz at 5 volts

HDBaseT SIGNAL CHARACTERISTICS

Maximum Distance	60m
Cable Requirements	Solid core shielded Cat 5e, Cat 6 or greater 568B pin out
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100 m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100m

CHASSIS & ENVIRONMENTAL

Enclosure	Painted aluminum
Dimensions	89mm x 437mm x 332mm (3.5 in x 17.2 in x 13.1 in) – 2 RU
Shipping Weight	6.5 kg (14.4 lbs.)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85% non-condensing

POWER, ESD & REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	24VDC / 1.25A
Power Consumption	200 watts (max)
ESD Protection	15kV
Product Regulatory	FCC, CE, RoHS
Power Supply Regulatory	CE, RoHS

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Cat 5e unless noted otherwise.

KEY FEATURES

- 6 × 4 MATRIX SWITCH
- TWO (2) HDBaseT INPUTS
- AUDIO BREAKAWAY
- POWERS REMOTE
- RECEIVERS & TRANSMITTERS

The Intelix **FLX-64** was designed for use in conference rooms that have two in-room inputs extended to the rack, a few local sources at the rack, two discrete displays, a VTC codec & a recorder. The FLX-64 can be controlled via front panel buttons, front panel IR, external IR, remote IR through HDBaseT extenders, RS232 & Ethernet.

OTHER

Standard Warranty	2 years
Diagnostic Indicators	Power LED, System LCD
Included Accessories	Installation guide, IR remote, IR eye, rack mounting ears with screws, rubber feet, US power cable, straight-through DE9 male to female RS232 cable, six 3.5mm TRS to 3.5mm TR IR cable
Compatible Transmitters (AV & Control)	DIGI-P52, DIGI-P123
Compatible Transmitters (AV & Power)	DIGI-HD60-S
Compatible Transmitters (AV, Control & Power)	ASW-WP, DIGI-HD60-C-S, DIGI-HDX-S
Compatible Receivers (AV & Power)	DIGI-HD60-R
Compatible Receivers (AV, Control & Power)	DIGI-HD60C-R, DIGI-HDX-R



LIBERTY INVENTORY SERVICES

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WHAT'S THE BENEFIT?

- Reduced Procurement Costs & Increased Revenue
- Easy Scan & Checkout
- Pay only when you consume the materials.
- No start-up costs or maintenance fees.
- Possible Savings: Tens of thousands of dollars

THE PROGRAM

- Pay only when you consume the materials
- On-site consigned inventory management program for day-to-day install materials. Inventory is on-site, not "virtual" with an unknown vendor warehouse.
- Dedicated LIS Service Coordinator & redundant back-up.
- Live webinar demonstration available.
- Open to the entire catalog of Liberty's products including custom cable, install kits, assemblies, connectors, racks, devices, fiber & more!
- Initial launch package includes estimated two months supply.
- Automated monthly replenishment of inventory with FREE surface freight. (Racks excluded)
- Liberty provides on-site training synchronized with initial delivery.

JOIN THE CROWD!

The best companies in the Pro A/V industry use **LIS**—you should too!



Intelix **FLEX Series** matrices provide switching, scaling, format conversion, audio embedding and audio de-embedding all in a modular, card-based package. Available in systems as small as 4 × 4 and as large as 32 × 32, FLEX matrices replace a rack full of traditional gear.

Each system is fully compatible with other Intelix HDBaseT electronics, including twisted pair extenders, auto switching wallplates and presentation switchers.

KEY FEATURES

8 × 8, 16 × 16 and 32 × 32 CARD FRAMES

HDMI, HDBASET, DVI, VGA, YPBPR, S-VIDEO and COMPOSITE VIDEO INPUT OPTIONS

HDMI, HDBASET and DVI OUTPUT OPTIONS

- Hot-swappable I/O cards
- Any input type to any output type
- RS232, IR, ethernet and front panel control
- Built-in EDID management
- Redundant power supplies on larger models

FLEX MATRIX TECH SPECS FLX-88/FLX-1616/FLX-3232

INPUT/OUTPUT CONNECTIONS

Supported Input Cards FLX-BI4, FLX-DI4, FLX-RI4, FLX-HI4A

Supported Output Cards FLX-BO4, FLX-DO4, FLX-BO4A, FLX-HO4A

Input and Output Card Securing Mechanism Thumbscrew

Control, Rear Panel RS232 via DE-9, TCP/IP via 8P8C connector

Control, Front Panel Push Button, IR

CHASSIS AND ENVIRONMENTAL

Material Black painted aluminum

Dimensions
FLX-88: 483mm x 356mm x 89mm
 (19 in. x 14 in. x 3.5 in.)
FLX-1616: 483mm x 356mm x 133mm
 (19 in. x 14 in. x 5.25 in.)
FLX-3232: 483mm x 356mm x 222mm
 (19 in. x 14 in. x 8.75 in.)

Rack Spacing
FLX-88: 2RU
FLX-1616: 3RU
FLX-3232: 5RU

Shipping Weight
FLX-88: 5.9 kg (13lbs.)
FLX-1616: 7.71 kg (17lbs.)
FLX-3232: 9.98 kg (22 lbs.)

Operating Temperature 0° to +40° C (+32° to +104° F)

Operating Humidity 20% to 90%, Non-condensing

Storage Temperature -10° to +60° C (+14° to +140° F)

Storage Humidity 20% to 90%, Non-condensing

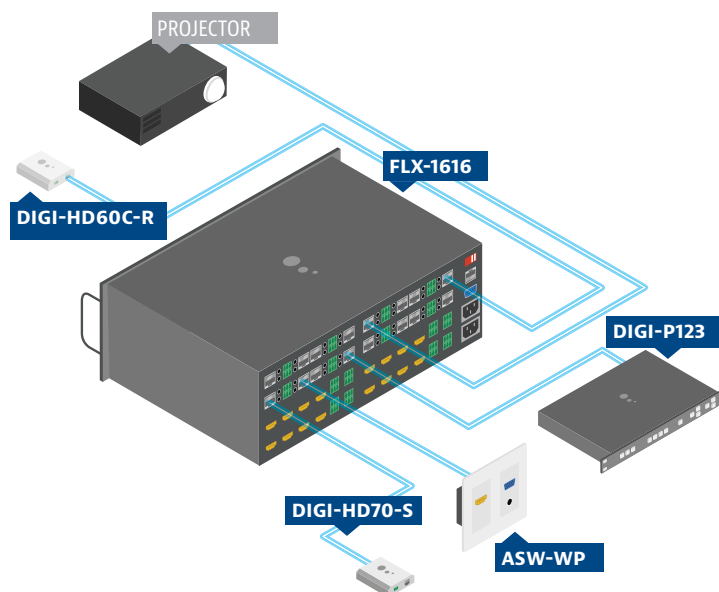
POWER, ESD, AND REGULATORY

Power Supply 100-240VAC 50/60 Hz

Power Consumption
FLX-88: 60 watts Fully Populated
FLX-1616: 135 watts Fully Populated
FLX-3232: 280 watts Fully Populated

ESD Protection 15kV

Regulatory CE, RoHS



OTHER

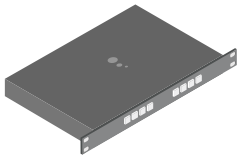
Warranty 2 years

Diagnostic Indicators LCD output status & power LED

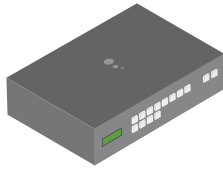
Included Accessories Installation Guide, IR Remote, RS232 Cable, Power Cable, Modular Metal Blank, Rubber Feet (4 ea) & Intelix Pocket Screwdriver

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Cat 5e unless noted otherwise.

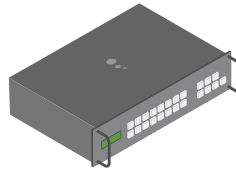
FLX-44,
page 12



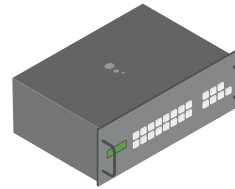
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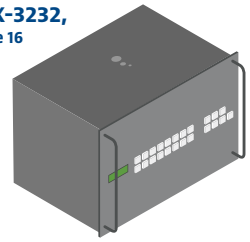
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FLX-1616,
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FLX-3232,
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FLX-HI4A



HDMI input card with audio embedding
Four HDMI inputs
Locking screw poles

FLX-DI4



DVI input card
Four DVI-D inputs
Actively buffered EDID and DDC

FLX-RI4



VGA, YPbPr, SV & CV input card
Four analog HD15 inputs
Scaling to XGA, WXGA, 720p and 1080p

FLX-BI4



HDBaseT input card
Four HDBaseT extender inputs
Includes embedded IR and RS232 transmission

FLX-HO4A



HDMI output card with audio de-embedding
Four HDMI outputs
Locking screw poles

FLX-DO4



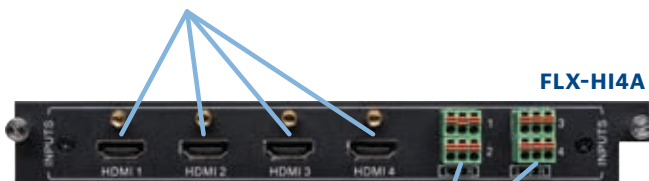
DVI output card
Four DVI-D outputs

FLX-BO4A

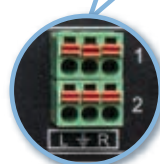


HDBaseT output card with audio de-embedding
Four HDBaseT extender outputs
Includes embedded IR and RS232 transmission

Four independent inputs

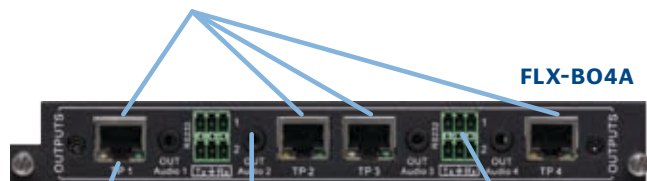


FLX-HI4A



Audio
embedding

Four independent outputs



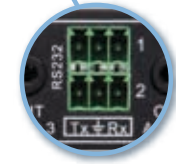
FLX-BO4A



HDBaseT extension
up to 230 feet



Audio de-embedding



RS232 & IR embedding

DIGI-88FS FAST SWITCHING MATRIX SWITCHER



The new **DIGI-88FS** features eight (8) HDMI inputs and eight (8) scaling HDMI outputs with support for resolutions up to 1920 × 1200. Regardless of the source video resolution, the display will always receive the ideal video resolution. Gone are the days of not being able to view 1080p content on a WXGA or 720p display.

In addition to the fast switching and scaling capabilities of the matrix, the **DIGI-88FS** can also be configured to automatically advance to the next HDMI input if the current video source is powered off.

The **DIGI-88FS** can be controlled via the front panel, infrared (IR), RS232, or via a web GUI when connected to an internal network. The extensive variety of control options makes the DIGI-88FS an easily accessible matrix for any control system.

The **DIGI-88FS** takes up only one rack unit, saving valuable real estate in an equipment rack. The 62-watt internal power supply with an industry standard IEC power input in the **DIGI-88FS** eliminates the need for "wall wart" or inline power supplies.

KEY FEATURES

AUTOMATIC OR MANUAL SWITCHING
Three (3) HDMI, two (2) VGA/YUV/SVID/CVID

AUDIO EMBEDDING & DE-EMBEDDING
MIC input with phantom power

- Built-in scaling up to 1920 × 1200
- 8 × 8 HDMI matrix
- Fast switching <1 second
- Output scaling up to 1920 × 1200
- Advanced EDID control
- Built-in web control

DIGI-88FS TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Inputs	Eight (8) HDMI Type A Receptacle Connector
HDMI Outputs	Eight (8) HDMI Type A Receptacle Connector
RS232	One (1) Female DE9 connector
Ethernet	One (1) Shielded RJ45 Female
IR Input	One (1) 3.5mm TRS
AC Power Inlet	IEC C14

SUPPORTED AUDIO, VIDEO, AND CONTROL

Maximum Video Compatibility	Deep Color 48/36/30/24 Bit at 1080p
Maximum Passive HDMI Cable Distance	5 m (16.4 ft)
Video Compliance	HDMI and HDCP
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
Ethernet	100BaseT
RS232 Baud Rate	9600, 19200, 38400 & 115200 baud

CHASSIS AND ENVIRONMENTAL

Enclosure	Painted steel
Dimensions	44 mm x 432 mm x 271 mm (1.73 in. x 17.01 in x 10.67 in)
Shipping Weight	4.03 kg (8.88 lbs.)
Operating Temp (Environment)	0° to +50° C (+32° to +122° F)
Operating Humidity (Environment)	20% to 80%, Non-condensing
Storage Temperature (Environment)	-20° to +60° C (-4° to +140° F)
Storage Humidity (Environment)	20% to 80%, Non-condensing

POWER, ESD AND REGULATORY

Maximum Power Consumption	62 watts
ESD Protection	15kV
Regulatory	CE, RoHS
DIGI-88FS Regulatory	FCC, CE, RoHS
Regulatory	CE, RoHS
Power Supply Regulatory	CE, RoHS

OTHER

Standard Warranty	2 years
Diagnostic Indicators	System Monitor LCD screen
Included Accessories	Installation Guide, Power Cable, IR receiver

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

SEE PREVIOUS PAGE FOR INPUT & OUTPUT CARD OPTIONS

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INT-IPEX1000 SERIES HDMI OVER IP EXTENDERS



IPEX1001 BLACK HDMI OVER IP ENCODER - MJPEG

INT-IPEX1001 TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

LAN port	One 8P8C-F
HDMI Input	One HDMI Type A Receptacle
5vDC Input	One threaded locking barrel (5.5mm OD; 2.6mm ID)

SUPPORTED AUDIO AND VIDEO

Maximum Video Compatibility	24 Bit at 1080p
Video Compliance	HDMI 1.3 and HDCP 1.3
Embedded Audio	PCM 2-channel, 44.1 and 48 KHz

ETHERNET SIGNAL CHARACTERISTICS

Maximum Distance	100m
Cable Requirements	Solid core Cat 5e, Cat 6 or greater with 568B pin out
Ethernet Standards	IEEE 802.3/802.3u/802.3x/802.1p/802.1q
PoE Standards	IEEE 802.3af/at (Type 1)
Transcoder Compression	Motion JPEG

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Galvanized Steel
Enclosure Dimensions (H x W x D)	21.5mm x 120mm x 60mm (0.85 in x 4.72 in x 2.36 in)
Shipping Weight	0.18 kg (0.40 lbs)
Operating Temperature	0° to +55° C (+32° to +131° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-40° to +85° C (-40° to +185° F)
Storage Humidity	10% to 85%, non-condensing

POWER AND REGULATORY

Power Consumption (INT-IPEX1001)	4.2 watts
Power Consumption (INT-IPEX1002)	3.5 watts
ESD Protection	±15 kV
Product Regulatory	CE, FCC, RoHS

KEY FEATURES

- Point-to-point and point-to-multipoint (250 Decoders)
- PoE PD (powered by switch) or local power (not included)
- MJPEG compression with stereo audio
- 100 m (328 ft) range per junction
- Compatible with Ethernet switches
- Uses any Cat5/5e/6/6A twisted pair cabling

OTHER

Warranty	2 years
Diagnostic Indicators	Power, Link, Data
Power Supply (sold separately)	PS-5D-10
Included Accessories	Installation guide, rubber feet (4 ea), mounting brackets (2 ea) with screws



IPEX1002 BLACK HDMI OVER IP DECODER - MJPEG

INT-IPEX1002 TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

LAN port	One 8P8C-F
HDMI Input	One HDMI Type A Receptacle
5vDC Input	One threaded locking barrel (5.5mm OD; 2.6mm ID)

SUPPORTED AUDIO AND VIDEO

Maximum Video Compatibility	24 Bit at 1080p
Video Compliance	HDMI 1.3 and HDCP 1.3
Embedded Audio	PCM 2-channel, 44.1 and 48 KHz

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Galvanized Steel
Enclosure Dimensions (H x W x D)	21.5mm x 120mm x 60mm (0.85 in x 4.72 in x 2.36 in)
Shipping Weight	0.18 kg (0.40 lbs)
Operating Temperature	0° to +55° C (+32° to +131° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-40° to +85° C (-40° to +185° F)
Storage Humidity	10% to 85%, Non-condensing

ETHERNET SIGNAL CHARACTERISTICS

Maximum Distance	100m
Cable Requirements	Solid core Cat 5e, Cat 6 or greater with 568B pin out
Ethernet Standards	IEEE 802.3/802.3u/802.3x/802.1p/802.1q
PoE Standards	IEEE 802.3af/at (Type 1)
Transcoder Compression	Motion JPEG

POWER AND REGULATORY

Power Consumption (INT-IPEX1001)	4.2 watts
Power Consumption (INT-IPEX1002)	3.5 watts
ESD Protection	±15 kV
Product Regulatory	CE, FCC, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	Power, Link, Data
Power Supply (sold separately)	PS-5D-10
Included Accessories	Installation guide, rubber feet (4 ea), mounting brackets (2 ea) with screws

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

INT-IPSW SERIES IP ETHERNET SWITCHES

INT-IPSW1108 BLACK INTELIX 8 PORT NETWORK SWITCH WITH UPLINK PORT



The Intelix **INT-IPSW1108** is an eight port 10/100BaseT ethernet switch with PoE+ (up to 15w per downlink port). The switch features two operation modes: Default and Isolate. In Default Mode, the switch will pass data between all downlink and uplink ports, similar to a standard Ethernet switch. In Isolate mode, downlink ports will only communicate with the uplink port. The INT-IPSW1108 includes a Kensington lock slot to prevent theft.

INT-IPSW1108 TECH SPECS

INPUT/OUTPUT CONNECTIONS

Ethernet Uplink	One 8P8C-F
Ethernet Downlink	Eight 8P8C-F
DC Power 48V-57V at 2.5A	One barrel (5.5mm OD; 2.6mm ID)

ETHERNET SIGNAL CHARACTERISTICS

Maximum Distance	100m
Cable Requirements	Solid core Cat 5e, Cat 6 or greater with 568B pin out
Ethernet Standards	IEEE 802.3/802.3u/802.3x/802.1p/802.1q
PoE Standards	IEEE 802.3af/at (Type 1)
Backplane Bandwidth	1.8 Gbps
Packet Forwarding Rate	1.34 Mbps
Packet Buffer	768K

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Galvanized Steel
Enclosure Dimensions (H x W x D)	27mm x 200mm x 104mm (7.87 in x 5.31 in x 4.05 in)
Shipping Weight	1.25 kg (2.75 lbs)
Operating Temperature	0° to +55° C (+32° to +131° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-40° to +85° C (-40° to +185° F)
Storage Humidity	10% to 85%, Non-condensing

POWER AND REGULATORY

Power Supply Input	100-240V AC / 50-60 Hz @ 2 A
Power Supply Output	54V DC at 1.1 A Double Check
Power Consumption	<5W, PoE output <120W
ESD Protection	±15 kV
Product Regulatory	CE, FCC, RoHS
Power Supply Regulatory	CE, FCC, RoHS

OTHER

Warranty	2 years
Security	Kensington Slot
Diagnostic Indicators	Chassis: power, ethernet (2 ea), isolate mode; uplink: link status (amber & green); downlink: link status (green), PoE status (amber)
Included Accessories	Power supply, IEC power cable (US), Rubber feet (4 ea), mounting brackets (2 ea) with screws

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

KEY FEATURES

- PoE+ (IEEE 802.3af/at (Type 1)) on 8 downlink ports
- Uplink port
- 1.8 Gbps backplane bandwidth
- 10/100 Mbps bandwidth per port (including uplink)
- Isolation mode switch to direct distributed traffic

INT-IPSW1104 BLACK INTELIX 4 PORT NETWORK SWITCH WITH UPLINK PORT



The Intelix **INT-IPSW1104** is a four port 10/100BaseT Ethernet switch with PoE+ (up to 15w per downlink port). The switch features two operation modes: Default and Isolate. In Default mode, the switch will pass data between all downlink and uplink ports, similar to a standard Ethernet switch. In Isolate mode, downlink ports will only communicate with the uplink port. The INT-IPSW1104 includes a Kensington lock slot to prevent theft.

KEY FEATURES

- PoE+ (IEEE 802.3af/at (Type 1)) on 4 downlink ports
- Uplink port
- 1 Gbps backplane bandwidth
- 10/100 Mbps bandwidth per port (including uplink)
- Isolation mode switch to direct distributed traffic

INT-IPSW1104 TECH SPECS

INPUT/OUTPUT CONNECTIONS

Ethernet Uplink	One 8P8C-F
Ethernet Downlink	Eight 8P8C-F
DC Power 48V-57V at 2.5A	One barrel (5.5mm OD; 2.6mm ID)

ETHERNET SIGNAL CHARACTERISTICS

Maximum Distance	100m
Cable Requirements	Solid core Cat 5e, Cat 6 or greater with 568B pin out
Ethernet Standards	IEEE 802.3/802.3u/802.3x/802.1p/802.1q
PoE Standards	IEEE 802.3af/at (Type 1)
Backplane Bandwidth	1.8 Gbps
Packet Forwarding Rate	0.75 Mbps
Packet Buffer	768K

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Galvanized Steel
Enclosure Dimensions (H x W x D)	27mm x 200mm x 104mm (7.87 in x 5.31 in x 4.05 in)
Shipping Weight	0.84 kg (1.85 lbs)
Operating Temperature	0° to +55° C (+32° to +131° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-40° to +85° C (-40° to +185° F)
Storage Humidity	10% to 85%, Non-condensing

POWER AND REGULATORY

Power Supply Input	100-240V AC / 50-60 Hz @ 2 A
Power Supply Output	54V DC at 1.1 A Double Check
Power Consumption	<5W, PoE output <120W
ESD Protection	±15 kV
Product Regulatory	CE, FCC, RoHS
Power Supply Regulatory	CE, FCC, RoHS

OTHER

Warranty	2 years
Security	Kensington Slot
Diagnostic Indicators	Chassis: power, ethernet (2 ea), isolate mode; uplink: link status (amber & green); downlink: link status (green), PoE status (amber)
Included Accessories	Power supply, IEC power cable (US), Rubber feet (4 ea), mounting brackets (2 ea) with screws

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



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The **SKYPLAY-DFS** distributes HDMI high-definition audio and video up to 3m (100ft) in both point-to-point, point-to-many, and many-to-point configurations. Each transmitter is compatible with up to 4 receivers & each receiver can be paired to switch up to 4 transmitters.

The SKYPLAY-DFS-S can transmit 1080p video with stereo or multichannel audio. The SKYPLAY-DFS-R can transmit IR signals from the remote location to control the source device.

KEY FEATURES

- Wirelessly distribute HDMI up to 100ft; IR control of source
- Signals can go through standard sheet rock walls
- Up to 4 receivers per transmitter
- Less than 1 frame latency (17ms)
- HDCP 2.0 compliant, dynamic EDID passthrough, multichannel audio support
- DFS (Dynamic Frequency Selection) for improved density & reliability
- The SKYPLAY-DFS radios are configured for US and Canada operation.

SKYPLAY-DFS-S & SKYPLAY-DFS-R

BLACK WIRELESS HDMI DISTRIBUTION SYSTEM WITH DYNAMIC FREQUENCY SELECTION



The SKYPLAY-DFS transmitter & receiver must be paired together to pass video.



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SKYPLAY-DFS TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Output	One HDMI Type A receptacle
5V DC Power	One mini USB Type B connector

SUPPORTED VIDEO, AUDIO AND CONTROL

Video Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p & VESA up to 1920 x 1080
Color Depth	30-bit
Video Compliance	HDMI & HDCP
Input Video Signal	0.5 – 1.5 volts p-p
Input DDC Signal	5 volts p-p
Embedded Audio	PCM 2.0, DTS (5.1) & Dolby Digital (5.1)
IR Frequency	38KHz

SIGNAL CHARACTERISTICS

Wireless Transmission Technology	Amimon Pro
Signal Bandwidth	40MHz
Maximum Transmission Distance	30.5 m (100 ft)
Transmission Rate	6.75 Gbps
Operating Frequency (Non-DFS)	5.19-5.23 GHz & 5.755-5.795 GHz
Operating Frequency (DFS)	5.27-5.59 GHz & 5.67 GHz
System Latency	<1ms

CHASSIS AND ENVIRONMENTAL

Material	Black plastic
Dimensions (H x W x D)	With rubber feet: 37mm x 95mm x 95mm (1.46 in x 3.74 in x 3.74 in) Without rubber feet: 33mm x 95mm x 95mm (1.30 in x 3.74 in x 3.74 in)
Shipping Weight	0.91 kg (2 lbs.)
Operating Temperature	-10° to +40° C (+14° to +104° F)
Operating Humidity	15% to 85%, non-condensing
Storage Temperature	-20° to +80° C (-4° to +176° F)
Storage Humidity	15% to 85%, non-condensing

POWER, ESD AND REGULATORY

Power Supply	5VDC 2.6A
Power Consumption	9 watts
ESD Protection	15kV
Regulatory	FCC, CE, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	Link and Video
Included Accessories	Installation Guide, IR remote, power supply with international adapters & HDMI cable

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

WIRELESSLY SEND HDMI SIGNALS

EVEN THROUGH DRYWALL!

No Line of Sight Needed



DIGI-HDXL HDBASET LONG RANGE EXTENDER

DIGI-HDXL-R 150M HDBASET HDMI, ETHERNET, RS232 & BI-DIRECTIONAL IR - RECEIVER



The Intelix **DIGI-HDXL-R** extends HDMI over a single cable by incorporating HDBaseT technology. The DIGI-HDXL-R supports 1080p video signals up to 150 meters (492 feet) including multichannel audio. Built-in surge protection and diagnostic LEDs ensure hassle-free and robust installations. Key features of the new extender series include local HDMI output on the transmitter, power over Ethernet (PoE), bidirectional IR, bidirectional RS232, and Ethernet pass-through with a 2-port network switch on the receiver.

DIGI-HDXL TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

HDMI Output	One HDMI Type A receptacle connector
Twisted Pair (HDBaseT)	One Shielded RJ45 Female
RS232	One 3-Pole Euroblock connector
Ethernet	Two Shielded RJ45 Female
IR Input	One 3.5mm TRS
IR Output	One 3.5mm TS
24V DC Power	One 5.5mm outside diameter, 2.1mm inside diameter barrel

SUPPORTED AUDIO, VIDEO AND CONTROL

Maximum Video Compatibility	Deep Color 24 Bit at 1080p
Video Compliance	HDMI, HDCP & CEC (Consumer Electronics Control)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD & DTS-HD master audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
IR Carrier Frequency Range	33-55kHz at 5 volts
Ethernet	100BaseT
RS232 Baud Rate	Up to 115200 baud

HDBASET SIGNAL CHARACTERISTICS

Maximum Distance	150 m (492 ft)
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with 568B pin out
Gain	0 dB – 10 dB at 100 MHz
Signal to Noise Ratio (SNR)	> 70 dB at 100MHz over 100m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100m

POWER AND REGULATORY

PoE Standard (Twisted Pair [HDBaseT] port) to extender	802.3af
Maximum Power Consumption	22 watts
Power Supply (Not Included)	24vDC / 1.5 Amp
ESD Protection	15kV
Regulatory	CE, RoHS

OTHER

Standard Warranty	2 years
Diagnostic Indicators	Heartbeat, Link, HDMI & power LEDs
Included Accessories	Installation Guide
Compatible Transmitters (AV and Control)	FLX-BO4A-XL
Compatible Transmitters (AV, PoE and Control)	DIGI-HDXL-S

ACCESSORIES

Power Supply	PS-24D-25
IR Emitter	DIGIB-EMT
IR Receiver	DIGIB-EYE

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

KEY FEATURES

- HDMI transmission up to 150m (492ft)
- Two-port Ethernet switch; locking power connector
- Supports 1080p/24bit & audio formats up to 7.1 audio
- Supports HDBaseT, CEC specifications; HDMI/HDCP compliant
- Built-in surge protection, diagnostic LEDs
- Bidirectional Wideband IR, RS232 & 100BaseT ethernet pass-through
- PoE - power from TX (PS not included) when used with DIGI-HDXL-S



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DIGI-HDXL-S 150M HDBASET HDMI, ETHERNET, RS232 & BI-DIRECTIONAL IR - TRANSMITTER



DIGI-1X4B-1H HDBASET DISTRIBUTION AMPLIFIER



THE INTELIX DIGI-1X4B-1H IS DESIGNED WITH AN HDMI LOOP OUT

which is intended to cascade to additional units, allowing for system expansion for larger systems. A unique control design allows the RS232 port to be addressed and cascaded, allowing control commands to be discretely directed to the RS232 port of any attached HDBaseT receiver.

This design allows third party control systems to reduce the number of COM ports required, thus reducing hardware costs. The Intelix DIGI-1X4B-1H is HDMI compatible and supports up to 4k x 2k resolutions, Deep Color and full 3D capabilities. The DA features advanced EDID and HDCP handling, including EDID copy and preset modes.

HDMI DISTRIBUTION AMP WITH FOUR (4) HDBASET OUTPUTS AND ONE (1) HDMI LOOP OUTPUT

The Intelix DIGI-1X4B-1H features HDBaseT twisted pair extension for four (4) outputs, allowing the same signal to be routed to a remote destination with an HDBaseT receiver. The HDBaseT ports support up to 4Kx2K HDMI video with audio, wide-band IR tunneling (for IR control of source or displays), RS232 tunneling, and HDCP up to 60 meters (196 feet). Each HDBaseT output port supplies power to the attached extender, eliminating the need for a power supply at the display end.

DIGI-1X4B-1H TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI	One (1) HDMI Type A Receptacle Connector
HDBASET OUTPUTS	Four (4) Shielded RJ45 Female
HDMI OUTPUT	One (1) HDMI Type A Receptacle Connector
RS232 IN	One (1) 3-Pole / 3.5mm Euroblock
RS232 LOOP	One (1) 3-Pole / 3.5mm Euroblock
IR INPUT	One (1) 3.5mm TRS
IR Loop	One (1) 3.5mm TRS
IR OUTPUT	One (1) 3.5mm TRS
24V DC POWER	One (1) Locking Barrel (5.5mm OD, 2.1mm ID)

CHASSIS AND ENVIRONMENTAL

ENCLOSURE	Painted Aluminum
DIMENSIONS	44mm x 220mm x 148mm (1.73 in x 8.66 in x 5.83 in) – 1RU
SHIPPING WEIGHT	0.67kg (1.48lbs)
OPERATING TEMPERATURE	0° to +48°C (+32° to +120°F)
OPERATING HUMIDITY	10% to 90%, Non-condensing
STORAGE TEMPERATURE	-20° to +70° C (+14° to +158°F)
STORAGE HUMIDITY	10% to 85%, Non-condensing
MIN-MAX SIGNAL LEVEL	< 0.3V – 1.45V p-p
DIFFERENTIAL PHASE ERROR	± 10° at 135MHz over 100m

POWER, ESD AND REGULATORY

POWER SUPPLY INPUT	100V-240VAC / 50–60Hz / 0.8A
POWER SUPPLY OUTPUT	24VDC / 1.25A
POWER CONSUMPTION	30 watts (max)
ESD PROTECTION	15kV
PRODUCT REGULATORY	FCC, CE, RoHS
POWER SUPPLY REGULATORY	CE, RoHS

SUPPORTED AUDIO, VIDEO AND CONTROL

MAX. VIDEO COMPATIBILITY AT 60 M	Deep Color 36/30/24Bit at 1080p
MAX. VIDEO COMPATIBILITY AT 35 M	Deep Color 48Bit at 1080p, 3D and 4k x 2k
MAX. PASSIVE HDMI CABLE DISTANCE	5m (16.4ft)
VIDEO COMPLIANCE	HDMI and HDCP
EMBEDDED AUDIO	Up to PCM 8 channel, Dolby Digital TrueHD and DTS-HD Master Audio
INPUT DDC SIGNAL	5V p-p (TTL)
INPUT VIDEO SIGNAL	0.5 to 1V p-p
RS232 BAUD RATE	9600, 19200, 38400 and 115200 baud
IR CARRIER FREQUENCY RANGE	33–55kHz at 5V

HDBASET SIGNAL CHARACTERISTICS

MAX. DISTANCE	60m
CABLE REQUIREMENTS	Solid core shielded Cat 5e, Cat 6 or greater with 568B pin out
BANDWIDTH	10.2Gbps
GAIN	0dB – 10dB at 100MHz
SIGNAL TO NOISE RATIO (SNR)	> 70dB at 100MHz over 100m
RETURN LOSS	< -30dB at 5kHz
TOTAL HARMONIC DISTORTION (THD)	< 0.005% at 1kHz
MIN-MAX SIGNAL LEVEL	< 0.3V – 1.45Vp-p
DIFFERENTIAL PHASE ERROR	±10° at 135MHz over 100m

OTHER

STANDARD WARRANTY	2 years
DIAGNOSTIC INDICATORS	Power LED, HDMI Input LED, HDMI Output LED, HDBaseT Link LEDs, HDBaseT HDCP LEDs
INCLUDED ACCESSORIES	Installation Guide, Power Supply, IR Emitter, IR Receiver, IR Loop Cable
COMPATIBLE RECEIVERS (AV & POE)	DIGI-HD60-R
COMPATIBLE RECEIVERS (AV & CONTROL)	FLX-BI4
COMPATIBLE RECEIVERS (AV, POE & CONTROL)	DIGI-HDXL-R, DIGI-HDX-R, DIGI-HD60C-R

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DIGI-HDAC HDMI SURROUND SOUND DECODER



**4K x 2K COMPATIBLE HDMI INPUT
WITH AUDIO SUPPORT FOR UP TO SIX
CHANNEL AUDIO**

The **DIGI-HDAC** was designed for use in installations where a digital or multichannel audio source is being sent to a device that does not support multichannel audio or requires analog audio.

The DIGI-HDAC features a 4Kx2K compatible HDMI input with audio support for up to six channel audio. The HDMI output will pass the original video signal and a down-mixed stereo audio version of the original digital audio signal. The DIGI-HDAC will also simultaneously output the audio to the 3.5mm jack and the stereo RCA jacks.



KEY FEATURES

- Decodes HDMI audio stream to stereo analog audio
- Supports 3D, 4K, and audio formats up to 5.1 audio
- HDMI output passes video with stereo audio
- Analog outputs (3.5mm and RCA) pass audio simultaneously
- Built-in surge protection, power LED
- Includes power supply; optional power via USB

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THE CABLES!**

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New M2-HDSEM HDMI Cables!

DIGI-HDAC TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

HDMI Input	One HDMI Type A Receptacle
5V DC Power	One 5.5mm Outside Diameter, 2.5mm Inside Diameter Barrel
USB Input (Alternate power input)	One USB Type B Mini Connector
HDMI Output	One HDMI Type A Receptacle
Analog Output	Two RCA Connectors
Headphone Output	One 3.5 mm Jack

SUPPORTED VIDEO AND AUDIO

Video Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p and UHD (3840 x 3160 [4K x 2K])
Color Depth	24, 30, 36, and 48 bit
Video Compliance	HDMI and HDCP
Input Video Signal	0.5 – 1.5 volts p-p
Input DDC Signal	5 volts p-p
Supported PCM 2 Channel Audio	32 KHz, 44.1 KHz, 48 KHz, 96 KHz
Supported Digital Audio	Dolby Digital and DTS: 6 channel (5.1) at 16, 20, or 24 bit
Output Signal to Noise Ratio	120 dB
Output Frequency Response	20 Hz through 20 KHz ± 0.5 dB

CHASSIS AND ENVIRONMENTAL

Enclosure	Painted steel
Dimensions with Connectors (H x W x D)	28mm x 84mm x 80mm (1.10 in x 3.31 in x 3.15 in)
Shipping Weight	0.32 kg (0.7 lb)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing

POWER, ESD AND REGULATORY

Power Supply Input	100V-240VAC/50-60 Hz/0.8A
Power Supply Output	5V DC; 1 Amp
Power Consumption	2.5 watts (max)
ESD Protection	±8kV (air-gap discharge), ±4kV (contact discharge)
Product Regulatory	FCC, CE, RoHS

OTHER

Warranty	2 years
Included Accessories	Power supply, installation guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



3G-12EQ SDI EQUALIZER WITH DUAL OUTPUTS

1x2 SDI EQUALIZER WITH DUAL OUTPUTS



The Intelix **3G-12EQ** is a splitter with an SDI repeater circuit to reach long distances. Using RG59 cable, the 3G-12EQ can extend a 3G-SDI input signal up to 70m, an HD-SDI signal up to 110m, or an SD-SDI signal up to 240m.

KEY FEATURES

- 1 x 2 SDI splitter with built-in SDI repeater circuitry
- Diagnostic LEDs
- 240m SD-SDI distance
- 110m SD-SDI distance
- 70m SD-SDI distance

3G-12EQ TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

SDI Input	One female BNC
SDI Output	Two female BNC
5V DC Power	One barrel (5.5mm OD; 2.6mm ID)

VIDEO/AUDIO PERFORMANCE

SDI Resolutions	720 × 480i/p (4:3 and 16:9), 720 × 576i/p (4:3 and 16:9), 1280 × 720p: 50/60 Hz, 1920 × 1080i: 25/30 Hz, 1920 × 1080p: 50/60 Hz
SDI Compatibility	SD-SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)
Maximum Input Distance (RG59)	SD-SDI: 240m, HD-SDI: 110m, 3G-SDI: 70m
Supported Audio	Up to 8 channel PCM

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Painted metal
Enclosure Dimensions (H x W x D)	28mm × 78mm × 58mm (1.14 in × 3.07 in × 2.28 in)
Shipping Weight	0.2 kg (0.44 lbs)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, non-condensing

POWER AND REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	12VDC / 2.0A
Power Consumption	24 watts (max)
ESD Protection	±15 kV
Product Regulatory	FCC, CE, IC, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	SDI input signal, power
Included Accessories	Wall mount power supply, power supply adapters (US, EU, UK, AU), installation guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



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SDI CABLE SOLUTIONS

Liberty provides SMPTE Serial Digital Video cables from Mini-RG59 to RG6 sized formats. All of our products are swept to 4.5 GHz and feature exceptional SRL ratios. These cables support up to 3G-SDI formats & all analog & digital audio formats that use coaxial cable.



3G-14 SDI DISTRIBUTION AMPLIFIER



The Intelix **3G-14** is a high efficiency four output SDI splitter. The 3G-14 is compatible with SD-SDI, HD-SDI & 3G-SDI signal formats, including HDCCTV.

KEY FEATURES

- 1 x 4 SDI distribution amplifier/splitter
- Supports SD-SDI, HD-SDI & 3G-SDI
- Diagnostic LEDs
- 240m SD-SDI distance
- 110m SD-SDI distance
- 70m SD-SDI distance

1 X 4 SDI DISTRIBUTION AMPLIFIER

INTELIX 3G-14 TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

SDI Input	One female BNC
SDI Output	Four female BNC
5V DC Power	One barrel (5.5mm OD; 2.6mm ID)

VIDEO/AUDIO PERFORMANCE

SDI Resolutions	720 × 480i/p (4:3 and 16:9), 720 × 576i/p (4:3 and 16:9), 1280 × 720p: 50/60 Hz, 1920 × 1080i: 25/30 Hz, 1920 × 1080p: 50/60 Hz
SDI Compatibility	SD-SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)
Maximum Input Distance (RG59)	SD-SDI: 240m, HD-SDI: 110m, 3G-SDI: 70m
Supported Audio	Up to 8 channel PCM

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Painted metal
Enclosure Dimensions (H x W x D)	30mm × 140.4mm × 61mm (1.18 in × 5.23 in × 2.40 in)
Shipping Weight	0.3 kg (0.66 lbs)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, non-condensing

POWER AND REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	5VDC / 2.0A
Power Consumption	10 watts (max)
ESD Protection	±15 kV
Product Regulatory	FCC, CE, IC, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	SDI input signal, SDI output signal, power
Included Accessories	Wall mount power supply, power supply adapters (US, EU, UK, AU), installation guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

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SDI TO HDMI CONVERTER

The Intelix **3G-SH** is a professional broadcast video product capable of converting 3G-SDI, HD-SDI or SD-SDI to HDMI. This allows viewing of broadcast content on standard consumer & commercial HDMI video displays.

The 3G-SH has one looping SDI output channel, which supports RGB & YUV color spaces & the HDCCTV standard.

KEY FEATURES

- SDI to HDMI converter
- Supports SD-SDI, HD-SDI & 3G-SDI
- Diagnostic LEDs
- Looping SDI outputs
- Supports unencrypted HDMI content up to 1080p & 8 channel PCM audio

INTELIX 3G-SH TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

SDI Input	One female BNC
HDMI Output	One HDMI type A
SDI Output	One female BNC
5V DC Power	One barrel (5.5mm OD; 2.6mm ID)

VIDEO/AUDIO PERFORMANCE

SDI Resolutions	720 × 480i/p (4:3 and 16:9), 720 × 576i/p (4:3 and 16:9), 1280 × 720p: 50/60 Hz, 1920 × 1080i: 25/30 Hz, 1920 × 1080p: 50/60 Hz
SDI Compatibility	SD-SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)
Maximum Input Distance (RG59)	SD-SDI: 240m, HD-SDI: 110m, 3G-SDI: 70m
Supported Audio	Up to 8 channel PCM
HDMI Output Resolutions	720x480i/p (4:3 and 16:9), 720x576i/p (4:3 and 16:9), 1280x720p: 50/60 Hz, 1920x1080i: 25/30 Hz, 1920 × 1080p: 50/60 Hz
HDMI Output Compatibility	HDMI 1.3a

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Painted metal
Enclosure Dimensions (H x W x D)	30mm × 112mm × 88mm (1.18 in × 4.41 in × 3.46 in)
Shipping Weight	0.3 kg (0.66 lbs)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, non-condensing

POWER AND REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	5VDC / 2.0A
Power Consumption	10 watts (max)
ESD Protection	±15 kV
Product Regulatory	FCC, CE, IC, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	SDI input signal, SDI output signal, power
Included Accessories	Wall mount power supply, power supply adapters (US, EU, UK, AU), installation guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



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3G-HS HDMI TO SDI CONVERTER



HDMI TO SDI CONVERTER

The Intelix **3G-HS** is a professional broadcast video product capable of converting HDMI to 3G-SDI, HD-SDI or SD-SDI. This allows viewing of industry standard consumer & commercial HDMI video components such as video players, computers & more on broadcast products. The 3G-HS has two SDI output channels, which support RGB & YUV color spaces & the HDCCTV standard.

KEY FEATURES

- HDMI to SDI converter
- Supports SD-SDI, HD-SDI & 3G-SDI
- Diagnostic LEDs
- Dual SDI outputs
- Supports unencrypted HDMI content up to 1080p & 8 channel PCM audio

INTELIX 3G-HS TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

HDMI Input	One HDMI type A
SDI Output	Two female BNC
5V DC Power	One barrel (5.5mm OD; 2.6mm ID)

VIDEO/AUDIO PERFORMANCE

HDMI Input Resolutions	720 × 480i/p (4:3 and 16:9), 720 × 576i/p (4:3 and 16:9), 1280 × 720p: 50/60 Hz, 1920 × 1080i: 25/30 Hz, 1920 × 1080p: 50/60 Hz
HDMI Input Compatibility	HDMI 1.3a
HDCP Input Compliance	Unencrypted content only
SDI Output Resolutions	720 × 480i/p (4:3 and 16:9), 720 × 576i/p (4:3 and 16:9), 1280 × 720p: 50/60 Hz, 1920 × 1080i: 25/30 Hz, 1920 × 1080p: 50/60 Hz
SDI Compatibility	SD-SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)
Supported Audio	Up to 8 channel PCM

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Painted metal
Enclosure Dimensions (H x W x D)	30mm × 112mm × 88mm (1.18 in × 4.41 in × 3.46 in)
Shipping Weight	0.3 kg (0.66 lbs)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, non-condensing

POWER AND REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	5VDC / 2.0A
Power Consumption	10 watts (max)
ESD Protection	±15 kV
Product Regulatory	FCC, CE, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators	HDMI input signal, power, SDI output signal (2 ea)
Included Accessories	Wall mount power supply, power supply adapters (US, EU, UK, AU), installation guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



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DIGI-USB2-4P USB 2.0 4-PORT EXTENSION SYSTEM



DIGI-USB2-4P BLACK 4 PORT USB 2.0 EXTENDER SET

The Intelix **DIGI-USB2-4P** extends computer USB 1.1 signals up to 100m (330ft) over twisted pair cabling to four remote devices. The DIGI-USB2-4P utilizes inexpensive twisted pair cabling & has a throughput of up to 480Mbps.

The DIGI-USB2-4P is perfect for keyboard & mouse extension, remote data ports, up to 4 USB hubs, security applications & interactive white board applications.

KEY FEATURES

- Extension up to 100m over Cat 5e/Cat 6
- Supports USB 1.1 and 2.0 signals up to 480Mbps
- Integrated 4-port USB hub
- Plug-and-play, no drivers required
- Powered on port (client) end



DIGI-USB2-4P TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

USB Input	One USB Type B Receptacle
Link Output	One 8P8C connector (RJ45 style)
5V DC Power	One barrel (5.5mm OD; 1.7mm ID)

CLIENT INPUT/OUTPUT CONNECTION

USB Outputs (500 mA max current)	Four USB Type A Receptacles
Link Input	One 8P8C connector (RJ45 style)
5V DC Power	One barrel (5.5mm OD; 1.7mm ID)

USB PERFORMANCE

Maximum Distance	100 m (328 ft) over Category 5e or greater cable
USB Device Support	High-speed devices (USB 2.0) - up to 480 Mbps Full-speed devices (USB 2.0 & 1.1) - up to 12 Mbps Low-speed devices (USB 2.0 & 1.1) - up to 1.5 Mbps
USB Hub Support	Any single chain can include up to 4 USB hubs plus one DIGI-USB2-4P.
USB Host Support	xHCI (USB 3.0) at USB 2.0 speed, EHCI (USB 2.0) & OHCI/UHCI (USB 1.1)
Maximum USB Devices Supported	Up to 15 USB devices or 4 USB hubs with 11 USB devices.

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Anodized Aluminum
Enclosure Dimensions (H x W x D)	26 mm x 100 mm x 76 mm (1.02 in x 3.94 in x 2.99 in)
Shipping Weight	0.9 kg (2.0 lbs)
Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing

POWER AND REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.6A
Power Supply Output	5VDC / 3.0A
Power Consumption	15 watts (max)
ESD Protection	±15 kV
Product Regulatory	FCC, CE, IC, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS

OTHER

Warranty	2 years
Included Accessories	Power supply

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



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PRODUCT SOLUTIONS

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DIGI-HDUSB HDMI/USB 2.0 EXTENSION SYSTEM

The Intelix **DIGI-HDUSB** extends HDMI & computer USB 2.0 signals up to 100m (330ft) over twisted pair cabling. The DIGI-HDUSB 3-port USB/video extender system supports full uncompressed HD video & USB 2.0 (up to 30Mbps) suitable for video applications in conjunction with keyboards, mice & USB 1.1 web cameras. The DIGI-HDUSB supports HDMI video features such as 1080p, 4K, deep color & CEC/HDCP pass-through. The DIGI-HDUSB supports both USB 1.1 & 2.0 devices.

KEY FEATURES

- Extension up to 100m over CAT5e or greater cable
- Supports both USB 1.1 & 2.0 signals up to 30Mbps
- HDMI supports 1080p, 3D & 4K
- CEC/HDCP pass through
- Plug-and-Play feature, no drivers required
- Powered on both transmitter & receiver



DIGI-HDUSB

DIGI-HDUSB TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

USB Input	One USB Type B Receptacle
Video Input	One HDMI In
Link Output	One 8P8C connector (RJ45 style)
5V DC Power	One barrel (5.5mm OD; 1.7mm ID)

CLIENT INPUT/OUTPUT CONNECTION

USB Outputs	Three USB Type A Receptacles
Video Output	One HDMI Out
Link Input	One 8P8C connector (RJ45 style)
5V DC Power	One barrel (5.5mm OD; 1.7mm ID)

USB PERFORMANCE

Maximum Distance	100 m (328 ft) over Cat 5e or greater cable
USB Device Support	High-speed devices (USB 2.0) - up to 30 Mbps Full-speed devices (USB 2.0 & 1.1) - up to 12 Mbps Low-speed devices (USB 2.0 & 1.1) - up to 1.5 Mbps
USB Hub Support	Any single chain can include up to 4 USB hubs.
USB Host Support	EHCI (USB 2.0) & OHCI/UHCI (USB 1.1)

CHASSIS AND ENVIRONMENTAL

Enclosure Material	Black Anodized Aluminum
Enclosure Dimensions (H x W x D)	112mm x 175mm x 30mm (4.4 in x 6.9 in x 1.18 in)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	120% to 80%, Non-condensing
Storage Temperature	-20° to +70° C (-4° to +158° F)
Storage Humidity	10% to 90%, Non-condensing

POWER AND REGULATORY

Power Supply Input	100V-240VAC / 50-60 Hz / 0.6A
Power Supply Output	5VDC / 3.0A
Power Consumption	15 watts (max)
Power Available to USB device at REX	500mA each port
ESD Protection	±15 kV
Product Regulatory	FCC, CE, IC, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS

OTHER

Warranty	2 years
Diagnostic Indicators (Host Side)	Power, Link, USB, Video
Diagnostic Indicators (Client Side)	Power, Link, USB, Video
Included Accessories	Power Supply, USB cable, HDMI cable, Installation Guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

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Featuring HDMI extenders that can be powered from either end, slim enough to easily mount behind a flat panel and boasting features like ethernet passthrough, Digitalinx products don't sacrifice technology for price.



DL-HD70

The Digitalinx **DL-HD70L** extender set transmits HDMI (1080p, 4Kx2K (UHD) & 3D), including HDCP 2.2 & bi-directional IR up to 70m away using a single Cat 6 twisted pair cable.

Built-in surge protection helps ensure hassle-free & robust installations. The 12 volt power supply is secured with a screw-on connector to prevent the power from being accidentally disconnected. The DL-HD70L is sold only as a set. The individual transmitter & receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.

KEY FEATURES

- 70M transmission distance over a single cable
- HDMI & a bi-directional IR
- 3D & 4K video support
- Power from either the send or receive end
- Diagnostic LEDs
- Compact size



DL-HD70L 70M HDMI & IR EXTENDER SET

DL-HD70L TECH SPECS

HOST INPUT/OUTPUT CONNECTIONS

HDMI	One HDMI Type A receptacle
Twisted Pair	One 8P8C port (Shielded RJ45)
IR Input	One 3.5mm TRS jack
IR Output	One 3.5mm TS jack
18V DC Power	One 5.5mm outside diameter, 2.1mm inside diameter barrel (locking)

SUPPORTED AUDIO AND VIDEO

Maximum Video Compatibility	70 m: Deep Color 36/30/24 Bit at 1080p 40 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k (UHD) up to 30 Hz: RGB, YCbCr 4:4:4, YCbCr 4:2:2; up to 60 Hz: YCbCr 4:2:0
Video Compliance	HDMI, HDCP 2.2, and CEC (Consumer Electronics Control)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
IR Carrier Frequency Range	33-55kHz at 5 volts

HDBASET SIGNAL CHARACTERISTICS

Maximum Distance	70m
Cable Requirements	Solid core shielded Cat 5e, Cat 6 or greater with 568B pin out
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100 m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100 m

CHASSIS AND ENVIRONMENTAL

Enclosure	Painted aluminum
Dimensions	24 mm x 120 mm x 61 mm (0.95 in x 4.72 in x 2.40 in)
Shipping Weight	0.82 kg (1.8 lbs.)
Operating Temperature (Environment)	0° to +40° C (+32° to +104° F)
Operating Temperature (Chassis)	31° C (88° F) (S); 38° C (100° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Storage Temperature (Environment)	-10° to +60° C (+14° to +140° F)
Storage Humidity (Environment)	20% to 90%, Non-condensing

POWER, ESD AND REGULATORY

Maximum Power Consumption	3 watts (S), 6 watts (R)
Power Supply	12V DC
ESD Protection	15kV
Regulatory	CE, RoHS

OTHER

Standard Warranty	2 Years
Diagnostic Indicators	Link & HDCP LEDs
Included Items	Installation Guide, power supply, US power cord, IR emitters (2 ea), IR receivers (2 ea), mounting "L" brackets (4 ea), mounting screws (4 ea)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



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DIGITALINX DL-S41 BLACK DIGITALINX 4X1 HDMI AUTOSWITCHER



The new **DL-S41** is a small format auto-switcher with four HDMI video inputs and one HDMI output. This switcher supports HDMI video resolutions up to 4K (3840x2160) at 30 Hz, 1080p 3D, and multichannel audio. In addition to passing EDID information from the display, there are multiple built-in EDID settings to simplify an installation. The DL-S41 will de-embed digital stereo audio to provide an analog audio source for an existing audio system. This switcher also features audio return channel (ARC) support through the analog audio output.

When in auto-switch mode, the DL-S41 will switch to an HDMI input as soon as a new source is connected. When the active source is removed, the switcher will select the first source on the lowest numbered input. The DL-S41 may also be controlled via RS232, IR with the included remote, or from the source button on the front of the switcher.

KEY FEATURES

- Auto-switch or manual switch between four HDMI inputs
- One HDMI and one 3.5 mm (ARC & audio de-embedding) output
- Front panel, IR and RS232 control
- UHD, 1080p, 3D compatible; HDCP compliant

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DL-S41 TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Inputs	Four HDMI Type A receptacle
HDMI Output	One HDMI Type A receptacle
Audio Output	One 3.5mm TRS jack
IR Input	One 3.5mm TRS jack
RS232	One 3.5mm TRS jack
EDID Selection	Four position DIP switch
5v DC Power	One 2.35mm outside diameter, 0.7mm Inside diameter barrel (EIAJ-1)
Source/Auto Button	One 3mm microswitch
Firmware Port	One USB Type B receptacle

SUPPORTED AUDIO, VIDEO AND CONTROL

Maximum Video Compatibility	Deep Color 48/36/30/24 Bit at 1080p, 3D, and 2160p/30
Video Compatibility	HDMI, HDCP, CEC & ARC
Video Compliance	HDMI & HDCP (Selectable)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD & DTS-HD Master Audio
Analog Audio	Analog stereo line-level (converted to 2ch 24bit PCM 48kHz)
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
IR Carrier Frequency Range	33-55kHz at 5 volts
RS232 Baud Rate	9600

CHASSIS AND ENVIRONMENTAL

Enclosure	Black aluminum
Dimensions (W x H x D)	193mm x 80mm x 11mm (7.60 in x 3.15 in x 0.43 in)
Shipping Weight	0.82 kg (1.8 lbs.)
Operating Temperature (Environment)	0° to +40°C (+32° to +104°F)
Operating Temperature (Chassis)	31° C (88° F) (S); 38° C (100° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Storage Temperature (Environment)	-10° to +60°C (+14° to +140°F)
Storage Humidity (Environment)	20% to 90%, Non-condensing

POWER AND REGULATORY

Maximum Power Consumption	5 watts
Power Supply Input Voltage	100-240v AC at 50/60 Hz at 0.5 A
Power Supply Output Rating	5v DC at 1 A
ESD Protection	15kV
Device Regulatory	CE, RoHS
Power Supply Regulatory	CE, RoHS, TUV, UL, SGS

OTHER

Standard Warranty	2 years
Diagnostic Indicators	Power, audio mode, source mode, selected input

Included Accessories
Installation guide, power supply, AC adapters (AU, EU, UK, and US), IR receiver, rubber feet, mounting "L" brackets (4 ea), mounting screws (4 ea)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

1 × 2 or 1 × 4 HDMI DISTRIBUTION AMPLIFIER/SPLITTER



DL-DA12S 1x2 SLIM HDMI DISTRIBUTION AMPLIFIER

The Digitalinx **DL-DA12S** is a one input to two output HDMI distribution amplifier (DA). The DL-DA12S supports 3D and 4K video resolutions as well as multichannel audio formats. The EDID setting for the DL-DA12S is defined by the highest compatible resolution of all connected displays. The DL-DA12S features diagnostic LEDs on the front of the product indicating the state of the connections into and out of the unit.

KEY FEATURES

- 1 × 2 or 1 × 4 HDMI distribution amplifier/splitter
- 3D & 4K video support
- Diagnostic LEDs
- Field firmware upgradeable
- Ultra slim • Plug-and-play, no drivers required
- Powered on port (client) end



DL-DA14S 1x4 SLIM HDMI DISTRIBUTION AMPLIFIER

DL-DA12S & DL-DA14S TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI Input	One HDMI Type A receptacle
HDMI Outputs	Two or Four HDMI Type A receptacle (1 per output)
5v DC Power	One 2.35mm outside diameter, 0.7mm inside diameter barrel (EIAJ-1)
Firmware Port	One ,mini USB Type B receptacle

SUPPORTED AUDIO AND VIDEO

Maximum Data Rate	10.2 Gbps
HDTV Video Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 1080p 3D, 4K × 2K (24, 25 & 30Hz)
VESA Video Resolutions	Up to 1920 × 1200
Embedded Audio Compatibility	Up to PCM 5 channel, Dolby Digital TrueHD & DTS-HD Master Audio
Maximum Passive HDMI Distance	5m (16ft)
Compliance	HDMI 1.4, HDCP 1.1, DVI 1.0

CHASSIS AND ENVIRONMENTAL

Enclosure	Painted aluminum
Dimensions (W × H × D)	11mm × 102.4mm × 70.4mm (0.43 in × 4.03 in × 2.77 in)
Shipping Weight	0.83 kg (1.87 lbs)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, non-condensing

POWER, ESD AND REGULATORY

Maximum Power Consumption	5 watts
Power Supply Input Voltage	100-240v AC at 50/60 Hz at 0.5A
Power Supply Output Rating	5v DC at 1 A
ESD Protection	15kV
Device Regulatory	CE, RoHS
Power Supply Regulatory	CE, RoHS, TUV, UL, SGS

OTHER

Warranty	2 years
Diagnostic Indicators	Power LED, Input LED, four output Status LEDs
Included Accessories	Installation guide, power supply, AC adapters (AU, EU, UK, and US), rubber feet, mounting "L" brackets (2 ea), mounting screws (4 ea)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



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The **DL-HFC** Hybrid Active Optical HDMI® cable is a plenum rated high speed HDMI® product featuring a very low profile hybrid copper/fiber bulk cable, detachable HDMI heads for ease of pulling in very small and tight locations, and unbeatable performance. The product is capable of supporting digital multimedia data rates up to 21.0 Gbps. This permits this product to support the full spectrum of HDMI 2.* signals, including video resolutions of 4K@60Hz. The fiber optic technology utilized in this product is fully HDCP 2.2 compliant.

KEY FEATURES

- Plenum rated cable for all installations
- Ultra-Small diameter cable
- Detachable HDMI TX & RX units from main body
- No external power needed, uses equipment power
- NEC CMP-OF, CEC FT6, HDCP 2.2, RoHS compliant
- Lengths: 25, 35, 50 & 75ft
- HDMI high speed, 19.2Gbps, 4K × 2K@60Hz, 3D, all audio

DL-HFC 25' BLACK DIGITALINX PLENUM RATED HYBRID COPPER / FIBER OPTIC HDMI WITH DETACHABLE HEADS



DL-HFC TECH SPECS

INPUT/OUTPUT CONNECTIONS

HDMI	Male HDMI Type A connector & female HDMI Type D receptacle
Umbilical Connection	Male HDM type D connector for fiber optic connection to cable TX/RX units

SUPPORTED AUDIO AND VIDEO

Maximum Video Compatibility	4K@60Hz 4:4:4, 1080P60 deep color, 3D
Video Compliance	HDMI, HDCP 2.2 & CEC (Consumer Electronics Control)
Embedded Audio	Up to 32 audio channels, this cable does not support the audio return channel
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
Maximum Bandwidth	21.0 Gbps

CABLE CONSTRUCTION

HDMI Connector Material	Molded ABS
HDMI Head Connector Dimensions	L: 16.8mm × W: 18.2mm × H: 10.0mm
HDMI Umbilical Head Connector Dimensions	L: 24.25mm × W: 10.0mm × H: 7.50mm
Fiber Jacket Material	Plenum Rated PVC
Cable Construction	Parallel Zip with 4 OM2 equiv. fibers in one side & 6 copper wires in the other
Overall Cable Diameter	2.35x5.80mm
Minimum Bend Radius	24mm on the lesser diameter
Maximum Tensile Load	22 kg (50 lbs.)

ENVIRONMENTAL REQUIREMENTS

Operating Temperature	0° to +75° C (+32° to +167° F)
Operating Humidity	20% to 85%, Non-condensing
Storage Temperature	20° to +60° C (4° to +140° F)
Storage Humidity	20% to 85%, Non-condensing

POWER, ESD AND REGULATORY

Power Supply	Via HDMI pin 18, 5 volt DC
Power Consumption	0.25 watts
Regulatory	NEC rated CMP-OF, CEC rated CMP, RoHS-2 compliant

OTHER

Warranty	2 years
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PART NUMBERS	PART DESCRIPTION	CABLE LENGTH
DL-HFC-025F	HDMI plenum hybrid AOC 25ft	8m / 25ft
DL-HFC-035F	HDMI plenum hybrid AOC 35ft	10m / 35ft
DL-HFC-050F	HDMI plenum hybrid AOC 50ft	15m / 50ft
DL-HFC-075F	HDMI plenum hybrid AOC 75ft	23m / 75ft



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DL-USB3.0 ACTIVE EXTENSION CABLE



DL-USB3.0 ACTIVE EXTENSION CABLE

The **DL-USB3.0** is a USB 3.0 active copper cable that offers extension up to 15 meters. The DL-USB3.0 is bus powered from the host PC side and USB 3.0 power connector is available if additional power is required. The DL-USB3.0 supports USB 3.0 throughputs up to 5Gbps, locking USB connector, rugged grade cabling and slot port for convenient cable tie mounting. The DL-USB3.0 supports only USB 3.0 devices. USB 2.0 and 1.1 devices will not function using this extender.



DL-USB3.0 TECH SPECS

INPUT/OUTPUT CONNECTIONS

USB Connector on Device Side	1 x USB 3.0 Type A Locking Receptacle per AIA USB 3 Vision™ specification
USB Connectors on Host Side	1 x USB 3.0 host connector & 1 x USB 3.0 power connector (recommended for devices drawing more than 2.5W)

SUPPORTED SIGNALS

USB 3.0	Up to 5Gbps (Not backward compatible with USB 2.0/1.1)
USB 2.0	Not Supported
USB 1.1	Not Supported

CABLE AND ENVIRONMENTAL

Shipping Weight	Shipping Weight 1.63kg (3.60lbs)
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	20% to 80% relative humidity, non-condensing
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Storage Humidity	10% to 90% relative humidity, non-condensing

POWER AND REGULATORY

Power Source	Bus Power
Available Power to Device	5V, 900mA
EMC	FCC (Class B), CE (Class B)
Environmental	RoHS2 (CE)
Flammability	VW-1 (UL 1581)
Machine Vision	Works with AIA USB3 Vision™ compliant devices

OTHER

Warranty	2 years
Included Accessories	USB 3.0 15m active extension cable & installation guide

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DL-DAC DIGITAL TO ANALOG CONVERTERS



The DigitalinX **DL-DAC2** is a PCM two channel to stereo audio converter. The DL-DAC2 features optical & digital coaxial input audio connections. Analog output is simultaneously available on the 3.5mm jack & the stereo RCA jacks.

KEY FEATURES

- Decodes stereo digital audio to stereo analog audio
- Digital optical & coaxial audio inputs
- Analog outputs (3.5mm & RCA) pass audio simultaneously
- Built-in surge protection, power LED
- Includes power supply; optional power via USB



DL-DAC2 STEREO DIGITAL TO ANALOG AUDIO CONVERTER

DL-DAC2 TECH SPECS

INPUT/OUTPUT CONNECTIONS

SPDIF (Optical) Input	One EIAJ optical connector
Coaxial Input	One RCA connector
Power Input	One 5.5mm outside diameter, 2.5mm inside diameter barrel
USB Input (Alternate power input)	One USB Type B mini connector
Analog Output	Two RCA connector
Headphone Output	One 3.5mm jack

DAC SPECIFICATIONS

Supported PCM 2 Channel Audio	32 KHz, 44.1 KHz, 48 KHz, 96 KHz
Output Signal to Noise Ratio	120 dB
Output Frequency Response	20 Hz through 20 KHz ± 0.5 dB



CHASSIS AND ENVIRONMENTAL

Enclosure	White ABS plastic
Dimensions with Connectors (H x W x D)	20mm x 72mm x 55mm (0.79 in x 2.83 in x 2.17 in)
Shipping Weight	0.18 kg (0.4 lb)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, non-condensing

POWER, ESD, AND REGULATORY

Power Supply Input	100-240V AC at 50/60 Hz
Power Supply Output	5V DC; 1 Amp
Power Consumption	2.5 watts (max)
ESD Protection	±8kV (air-gap discharge), ±4KV (contact discharge)
Regulatory	FCC, CE, RoHS

OTHER

Warranty	2 years
Included Accessories	Power supply

The DigitalinX **DL-DAC6** is a surround sound to stereo audio converter. The DL-DAC6 features optical and digital coaxial input audio connections. Analog output is simultaneously available on the 3.5mm jack and the stereo RCA jacks. The DL-DAC6 features a switch to specify which audio input is being used.

KEY FEATURES

- Decodes stereo digital audio to stereo analog audio
- Digital optical & coaxial audio inputs
- Analog outputs (3.5mm & RCA) pass audio simultaneously
- Built-in surge protection, power LED
- Includes power supply; optional power via USB



DL-DAC6 DIGITAL TO ANALOG SURROUND SOUND DECODER

DL-DAC6 TECH SPECS

INPUT/OUTPUT CONNECTIONS

SPDIF (Optical) Input	One EIAJ optical connector
Coaxial Input	One RCA connector
Power Input	One 5.5mm outside diameter, 2.5mm inside diameter barrel
USB Input (Alternate power input)	One USB Type B mini connector
Analog Output	Two RCA connector
Headphone Output	One 3.5mm jack

DAC SPECIFICATIONS

Supported PCM 6 Channel Audio	32 KHz, 44.1 KHz, 48 KHz, 96 KHz
Supported Digital Audio	Dolby Digital, DTS, & PCM: 6 channel (5.1) at 16, 20, or 24 bit
Output Signal to Noise Ratio	120 dB
Output Frequency Response	20 Hz through 20 KHz ± 0.5 dB

CHASSIS AND ENVIRONMENTAL

Enclosure	White ABS plastic
Dimensions with Connectors (H x W x D)	20mm x 72mm x 55mm (0.79 in x 2.83 in x 2.17 in)
Shipping Weight	0.18 kg (0.4 lb)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, non-condensing

POWER, ESD, AND REGULATORY

Power Supply Input	100-240V AC at 50/60 Hz
Power Supply Output	5V DC; 1 Amp
Power Consumption	2.5 watts (max)
ESD Protection	±8kV (air-gap discharge), ±4KV (contact discharge)
Regulatory	FCC, CE, RoHS

OTHER

Warranty	2 years
Included Accessories	Power supply



**DL-DAFC** DIGITAL COAXIAL / OPTICAL AUDIO CONVERTER

The DigitalLinX **DL-DAFC** is a Digital Coaxial / Optical audio converter. The DL-DAFC supports S/PDIF audio signal input through either Digital Coaxial or Optical cable and passes the signal (as is) to both Digital Coaxial and Optical output ports. With the DL-DAFC built-in amplification feature, it can serve as a repeater of the audio signal and extend the transferring distance.

KEY FEATURES

- Digital Coaxial or Optical in to Digital Coaxial and Optical out
- Both Digital Coaxial and Optical outputs live simultaneously
- Effectively functions as a digital converter and splitter
- Field firmware upgradeable
- Powered with power supply or powered with USB port

DL-DAFC TECH SPECS

INPUT/OUTPUT CONNECTIONS

SPDIF (Optical) Input	One EIAJ optical connector
Coaxial Input	One RCA connector
Power Input	One 5.5mm outside diameter, 2.5mm inside diameter barrel
USB Input (Alternate power input)	One USB Type B mini connector
SPDIF (Optical) Output	One EIAJ Optical Connector
Digital Coaxial Output	One RCA connector

DAC SPECIFICATIONS

Supported PCM 6 Channel Audio	32 KHz, 44.1 KHz, 48 KHz, 96 KHz
Supported Digital Audio	Dolby Digital, DTS, & PCM: 6 channel (5.1) at 16, 20 or 24 bit
Output Signal to Noise Ratio	120 dB
Output Frequency Response	20 Hz through 20 KHz ± 0.5 dB

CHASSIS AND ENVIRONMENTAL

Enclosure	Black ABS plastic
Dimensions with Connectors (H x W x D)	20mm x 72mm x 54mm (0.79 in x 2.83 in x 2.12 in)
Shipping Weight	0.18 kg (0.4 lb)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-20° to +60° C (-4° to +140° F)
Storage Humidity	20% to 90%, non-condensing

POWER, ESD AND REGULATORY

Power Supply Input	100-240V AC at 50/60 Hz
Power Supply Output	5V DC; 1 Amp
Power Consumption	2.5 watts (max)
ESD Protection	±8kV (air-gap discharge), ±4KV (contact discharge)
Regulatory	FCC, CE, RoHS

OTHER

Warranty	2 years
Included Accessories	Power supply

DON'T FORGET THE CABLES!

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New M2-HDSEM HDMI Cables!

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Keep your adapters where they need to be & immediately accessible for your mobile content presentation podium, boardroom, or docking station!

DL-AR**PERFECT FOR:**

- Adapting various mobile content devices to HDMI
- Interfacing Laptops, Macs, iPad, Smartphone to HDMI



FIBER OPTIC GATEWAY CONTROL BOXES

Celerity **Fiber Optic Gateway (FOG)** is a breakthrough for high definition, long distance distribution of AV and control signals over fiber optic cable. HDMI, RS232, IR, 10/100BASE-T Ethernet and USB HID are supported up to 1000 feet over a single Celerity fiber optic cable. The combination of these functions in a sleek and slim component with fiber optic connectivity provides superior performance, bandwidth and flexibility for AV professionals to design and install high performance content and control signal distribution systems.

FIBER OPTIC HDMI & MULTIPLE CONTROL SIGNALS

TECH SPECS	FOG-TXCB TRANSMITTER	FOG-RXCB RECEIVER
FUNCTION		
CELERITY FIBER OPTIC CABLE INPUT	—	Celerity mini digital
CELERITY FIBER OPTIC CABLE OUTPUT	Celerity mini digital	—
CELERITY FIBER OPTIC CABLE DISTANCE	up to 1000 ft	p to 1000 ft
HDMI INPUT	HDMI Type-A	HDMI Type-A
HDMI OUTPUT	RJ45	RJ45
RS232	3.5mm TRS	3.5mm TRS
IR INPUT (RX)	3.5mm TS	3.5mm TS
IR OUTPUT (TX)	below 100 kHz	below 100 kHz
IR CARRIER FREQUENCY RANGE	5V	5V
IR POWER	USB Type-A	USB Type-A
USB HID	10/100BASE-T	10/100BASE-T
ETHERNET (RJ45 CONNECTOR)	USB micro	USB micro
5V POWER	4K @ 60Hz UltraHD	4K @ 60Hz UltraHD
SUPPORTED RESOLUTIONS	HDMI High Speed	HDMI High Speed
HDMI CERTIFICATION	Yes	Yes
HDCP	Yes	Yes
EDID PASS-THROUGH	Yes	Yes
CEC	USB 5V/1A	USB 5V/1A
POWER ADAPTER	DC5V 200mA	DC5V 200mA
POWER	Aluminum	Aluminum
ENCLOSURE	16mm x 60mm x 136mm	16mm x 60mm x 136mm
DIMENSIONS (IN & MM)	0.62" x 2.36" x 5.35"	0.62" x 2.36" x 5.35"
SHIPPING WEIGHT (LBS & KG)	0.5 lbs / 0.23 kg	0.5 lbs / 0.23 kg

FOG-TXCB TRANSMITTER



KEY FEATURES

- FOG Control Box Transmitter (TX)
- FOG-TXCB
- USB power cable (1.5m)
- USB-AC power adapter (5V/1A)
- IR emitter cable with 3.5mm plug (TS, 5V)
- IR receiver cable with 3.5mm plug (TRS, 5V)
- User guide

FOG-RXCB RECEIVER



KEY FEATURES

- FOG Control Box Transmitter (RX)
- FOG-RXCB
- USB power cable (1.5m)
- USB-AC power adapter (5V/1A)
- IR emitter cable with 3.5mm plug (TS, 5V)
- IR receiver cable with 3.5mm plug (TRS, 5V)
- User guide



TWO STEP FIBER OPTIC CONTROL

FOG-TXWP BLACK CELERITY FIBER OPTIC GATEWAY TRANSMIT WALL PLATE

KEY FEATURES

- FOG Wall Plate mounted Transmitter
- Uses Mini connectors for Fiber interface
- Ultra-Small diameter cable
- Very low profile head for ease of pulling
- Connect with the pre-made FOG umbilical cables
- RS232, IR, 10/100BASE-T Ethernet and USB HID
- HDMI 2.0 19.2 Gbps, supports 4K@60Hz, CEC, HDCP

FOG-RXWP BLACK CELERITY FIBER OPTIC GATEWAY RECEIVE WALL PLATE

KEY FEATURES

- FOG Wall Plate mounted Receiver
- Uses Mini connectors for Fiber interface
- Ultra-Small diameter cable
- Very low profile head for ease of pulling
- Connect with the pre-made FOG umbilical cables
- RS232, IR, 10/100BASE-T Ethernet and USB HID
- HDMI 2.0 19.2 Gbps, supports 4K@60Hz, CEC, HDCP

FOG-1000P BLACK CELERITY TECHNOLOGIES FIBER OPTIC GATEWAY (FOG) UMBILICAL

The **Celerity Fiber Optic Gateway Cable** eliminates the time consuming and costly steps of fiber terminations. With Celerity FOG, only 2 steps are required – pre-wire and connect. Using the Celerity mini digital connector on each end of the fiber optic cable, a fast and secure connection is made to the FOG-TXCB and FOG-RXCB. This saves time and ensures that ensures a perfect fiber connection is always available.

The Celerity Fiber Optic Gateway cable includes a small module at each end of the cable which supports the connection between the FOG components over the fiber. The small dimension of this module makes it easy to pull through conduit and concealed spaces. The Celerity Fiber Optic Gateway cable is plenum-rated to meet required safety specifications and building codes. The Celerity FOG Cable is available in lengths of 35' 40' 50' 60' 80' 100' 160' 200' 500' and 1000'. Custom lengths may be special-ordered. Celerity FOG cables are sold separately from the FOG-TXCB.

KEY FEATURES

- Plenum rated cable for all installations
- Ultra-Small diameter cable
- Very low profile head for ease of pulling
- Connects the FOG TX and RX units
- Lengths: 40, 60, 80, 100, 160, 200, 500, 1000ft
- HDMI 2.0 19.2 Gbps, supports 4K@60Hz



AVAILABLE LENGTHS

10.6m	35ft	18.2m	60ft	48.7m	160ft	304.8m	1000ft
12.2m	40ft	24.3m	80F	60.9m	200ft		
15.2m	50ft	30.4m	100F	152.4m	500ft		

CUSTOM LENGTHS

Available in 50' (15.2m) increments from 250' to 950' (76.2m to 290m)

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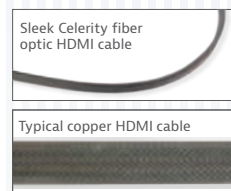
FIBER OPTIC HDMI

Reliable, time-saving design with no tedious fiber terminations & requires no costly fiber tools

ENGINEERED FOR INSTALLERS

The Celerity Detachable Fiber Optic connector supports a thin, durable fiber optic cable in multiple lengths to 1000'. The fiber optics are pre-terminated with a miniature plug (9mm width) which supports fiber optic transfer to and from HDMI.

The use of the miniature plug eliminates the need for time-consuming fiber terminations and the need for costly fiber optic tools. The miniature fiber optic plug securely connects to the Celerity Detachable HDMI connector at the source and display components.



DFO-1000P

Features and Benefits

- Optimized for long distance transmission of HDMI® signals up to 1,000 feet
- Plenum-rated miniature fiber optic cable plug
- Fully supports HDMI video, audio and data
- Easy to prewire, no fiber terminations or costly fiber tools required
- Fast and reliable connection
- Detachable Fiber Optic HDMI connector
- First Audio Return Channel over fiber
- Superior bandwidth versus copper
- Eliminates need for send/receive baluns

Application:

- Works with all HDMI certified components
- Blu-ray, DVD, AVR, switchers, game consoles, computer, high definition TV
- Home theater
- Whole-home video system
- Conference room system
- Multi-display system
- Digital signage
- Video display wall

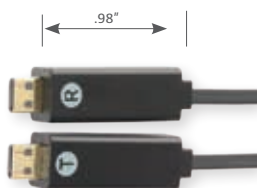


Celerity Technologies' Fiber Optic Plug terminating each end of the Celerity Fiber Optic HDMI cable supports proprietary technology for HDMI over optical fiber. While the plug may appear similar to that of micro-HDMI or mini-USB, it does not support any technical attributes of either connector.

The Celerity fiber optic plug supports only proprietary Celerity technology and is connected to the Celerity Fiber Optic HDMI connector according to the user guide.



Sleek cable and supports up to 1,000' without loss of signal integrity and HDMI specification



Miniature plug protects the fiber optics & internal electronics and allows for a simple and secure connection



Detachable HDMI connector makes pre-wiring of the fiber optic cable as easy as plug and play



Detachable Fiber Optic HDMI Connector

*Available Lengths: 30, 40, 50, 60, 80, 100, 160, 200, 500, 1000 feet

NGSE8H NIVEO GIGABIT ETHERNET SWITCH 8-PORT WITH POE+



- Gigabit Ethernet switch with PoE
- 8 ports, desktop or rack mount
- Jumbo frame 9.6K support
- IEEE 802.3 at Power over Ethernet (PoE)
- 30 watts per port Power over Ethernet
- Autosenses cable type, no crossover needed
- Auto negotiation on each port
- Non-blocking wire speed 2000Mbps/port

NGSME16T2H NIVEO 16-PORT GIGABIT FULL L2 MANAGEMENT, PLUS 2 SFP OPEN SLOT, POE+ SWITCH (200W)



- Gigabit Ethernet switch SFP and PoE
- 16+2 ports, desktop or rack mount
- Jumbo frame 9.6K support
- Layer 2+ full software management
- Small to Medium networking environments
- LAN 10/100/1000BaseT infrastructure
- Autosenses cable type, no crossover needed
- Auto negotiation on each port
- Non-blocking wire speed 2000Mbps/port
- IEEE 802.3at Power over Ethernet (PoE)
- Strengthening existing networks

NGSM24T2 NIVEO 24-PORT GIGABIT FULL L2 MANAGEMENT, PLUS 2 SFP OPEN SLOT SWITCH



- Gigabit Ethernet switch SFP expansion
- 4+2 ports, desktop or rack mount
- Jumbo frame 9.6K support
- Layer 2+ full software management
- Medium to large networking environments
- LAN 10/100/1000BaseT infrastructure
- Autosenses cable type, no crossover needed
- Auto negotiation on each port
- Non-blocking wire speed 2000Mbps/port
- IEEE 802.3at Power over Ethernet (PoE)
- Strengthening existing networks

NGSME24T2H NIVEO ETHERNET SWITCH 24-PORT FULL L2 MANAGEMENT, PLUS 2 SFP OPEN SLOT, POE SWITCH (400W)



- Gigabit Ethernet switch SFP and PoE
- 24+2 ports, desktop or rack mount
- Jumbo frame 9.6K support
- Layer 2+ full software management
- Autosenses cable type, no crossover needed
- Auto negotiation on each port
- Non-blocking wire speed 2000Mbps/port
- IEEE 802.3at Power over Ethernet (PoE)

NGSME8H NIVEO 8-PORT GIGABIT FULL L2 MANAGEMENT, PLUS 2 SFP OPEN SLOT, POE+ SWITCH (130W) (400W VERWIJDEREN)



- 8+2 ports, desktop or rack mount
- Jumbo frame 9.6K support
- 30 watts per port Power over Ethernet
- Non-blocking wire speed 2000Mbps/port
- Layer 2+ full software management
- Autosenses cable type, no crossover needed
- Auto negotiation on each port

NNAS-D5 NIVEO 5 BAY MEDIA STORAGE SYSTEM



- Intel Atom Dual Core 1.8G processor
- Cache memory 2GB DDR II SDRAM
- Supports five 3.5" SATA II hard drives
- Up to 15TB (3000 hrs of Blu-Ray data)
- Two Gigabit Ethernet port
- Environmental monitoring unit
- Supports RAID levels 0, 1, 5, 6, 10 Linear (JBOD)
- Network storage for A/V multimedia
- Home, Office and Hospitality media delivery
- IEEE 802.3at Power over Ethernet (PoE)

NNAS-R4 NIVEO 4 BAY RACK MOUNTED MEDIA STORAGE SYSTEM



- Intel Atom Dual Core 1.8G processor
- Cache memory 2GB DDR II SDRAM
- Up to 12TB (2500hrs of Blu-Ray data)
- Supports four 3.5" SATA II hard drives
- Up to 12TB (2500hrs of Blu-Ray data)
- Two Gigabit Ethernet port

NR50 NIVEO MULTI WAN LOAD BALANCING VPN ROUTER



- Multi WAN load balancing VPN Router
- Four ports can be used as backup WAN or Internet
- Up to 30 IPsec tunnels for VPN use
- Environmental monitoring unit
- Network storage for A/V multimedia
- IEEE 802.3at Power over Ethernet (PoE)
- Secure networking for remote offices, office to home
- Security of service when multiple ISP's are in use
- Failover feature to manage two or more ISP connections
- Supports RAID levels 0, 1, 5, 6, 10 Linear (JBOD)
- Home, Office and Hospitality media delivery

NUPS22-1000U NIVEO UNINTERRUPTED POWER SUPPLY RACK/TOWER ON-LINE 1KVA



- True Sine Wave double-conversion
- Output power factor 0.9
- User-friendly and easy-shift LCD design
- Rack/Tower design
- ECO and advanced ECO mode for energy saving
- Output voltage regulation < 1%
- Higher output crest ratio 5:1
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot-swappable battery design
- Multiple communication available

NWA100 NIVEO ACCESS POINT 900M DUAL-BAND, DUAL-RADIO HIGH POWER ACCESS POINT



- Dual-Band High Power Fat Access Point
- 2.4 & 5 GHz simultaneously
- Inconspicuous design for residential / commercial installs
- Expanded wireless coverage up to 900Mbps
- Dual Power, DC or PoE power
- Network Wireless Access Point for SOHO
- Network Wireless Access Point expansion

NVMSX550U 1-P 1000BASE-SX MINI-GBIC MODULE (MM, SFP)



- Compliant with fiber channel 100-M5-SN-I & 100-M6-SN-I standard
- Compliant with IEEE802.3z Gigabit ethernet standard
- Duplex LC connector
- Industry standard small form pluggable (SFP) package
- Single power supply 3.3V
- High speed I/O for file server
- Bus extension application
- Differential LVPECL inputs and outputs
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825
- Distributed multi-processing
- Switch to switch interface
- Channel extender, data storage



NWA200 IN-WALL WIRELESS ACCESS POINT

KEY FEATURES

- In-wall WAP with RJ45/USB Power/RJ11 Connectivity
- 2.4 GHz, 802.3af PoE, max power 9W, transmit 18dbm
- Inconspicuous design for residential/commercial installs
- 2 3dbi omni-directional antennas
- Multiple SSID
- Dual Power, DC or PoE power

DESIGNED WITH THE END-USER IN MIND

The NWA200 is designed with the end-user in mind. The unit features a compact 86x86mm design, including a snap-on cover plate. An optional bracket from Liberty AV Solutions (LIBER-CQ87890-1) secures the NWA200 in a standard double gang box. Custom brackets are available in virtually any color or finish.

SIMULATED ROAMING

The NWA200 features Niveo Professional's "Simulated Roaming" technology, which allows for the roaming of client devices between the multiple access points—whether in-wall or traditional—without the need for expensive access controllers.

The manages access points can be configured for up to two separate SSID's, allowing for the simulation of different wireless networks, such as a guest network. These networks are configured for different users and ultimately different permissions (e.g. access the network or dedicated parts of the network, access of internet or intranet, use of VoIP, streaming video, etc.

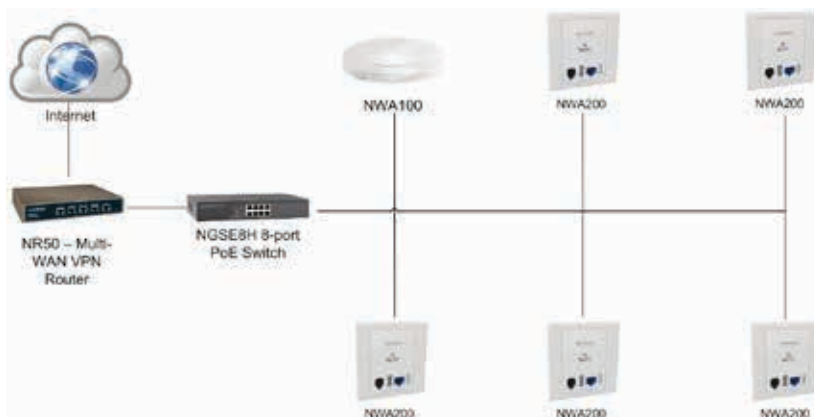


The **Niveo professional NEW200 Wireless Access Point** is specifically designed for both Residential and Commercial applications, including both retrofit and new construction. It is particularly well suited for K-12 and higher education, whole house, corporate, retail & hospitality network deployments.

Innovative features include an RJ45 jacket for deployment of IP-TV, IP-Phone or IP Cams as well as an RJ11 socket is for conventional telephone systems. In addition, the NWA200 provides a 5V 500mA USB charger output, and the unit is powered fully with PoE (Power over Ethernet, injector included), avoiding the need for power cabling throughout the building.

The NEW200 is designed for extremely stable operation, minimizing the occurrence of auto resets and preventing faulty start-ups after resetting.

The flexible and simple web interface facilitates a fast, time saving configuration process for the installer.



NWA200 TECH SPECS

SPECIFICATIONS

Product & Part Number	NWA200 (access point) LIBER-CQ87890-1 (double gang trim ring)
Interfaces	2x FE LAN Ports 1x RJ11 Telephone jacket 1x USBv2.0 (for charging)
WiFi Antennas	2x 3 dbi omni-directional antennas
Power	802.3af PoE. Max power 9W
Frequency	2.4 GHz – 2.483 GHz
Maximum Transit Power	18 dbM
Wireless Basic Settings	Multiple SSID Enable/Disable Wireless Radio Wireless Client Isolation Wireless Access Control Wireless Client list SSID to VLAN Tagging
Wireless Security Settings	64/128 WEP, WPA-PSK, WPA2-PSK, WPA, WPA2, WPA & WPA2-PSK
Maximum Concurrent Clients	12
LAN Settings	Static IP/ Dynamic IP
DHCP Server	DHCP Server, Client List
VPN Pass-Through	PPTP, L2TP
Operating Temperature	-10°C ~45°C (14°F ~113°F)
Operating Humidity	10% - 90% non-condensing
Certifications	FCC, CE RoHS, GOS-R

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

PRODUCT HIGHLIGHTS

- POPULAR SELECTION
- UL, CSA & ROHS SAFETY RATINGS
- ECONOMY & PREMIUM LEVELS
- COMPETITIVE PRICING
- MOST COMMON FORMATS
- MOST COMMON LENGTHS

P10A-15P-C13
VALUE

ECONOMY POWER CORD 10 AMP 5-15 PLUG TO IEC C13 RECEPTACLE

- Ideal for cord management in racks & cabinets
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT cable
- NEMA 5-15 Plug to IEC 320 C13 receptacle
- UL listed & RoHS compliant
- Available in 1, 3, & 10ft lengths
- Only in black

P13A-15P-C13
VALUE

ECONOMY POWER CORD 13 AMP 5-15 PLUG TO IEC C13 RECEPTACLE

- Ideal for cord management in racks & cabinets
- 16 AWG copper conductors
- 125 Volt, 13 Amp rated SJT cable
- NEMA 5-15 Plug to IEC 320 C13 receptacle
- UL listed & RoHS compliant
- Available in 1, 3, & 10ft lengths
- Only in black

P15A-15P-C13
VALUE

ECONOMY POWER CORD 15 AMP 5-15 PLUG TO IEC C13 RECEPTACLE

- Ideal for cord management in racks & cabinets
- 14 AWG copper conductors
- 250 Volt, 15 Amp rated SJT cable
- NEMA 5-15 Plug to IEC 320 C13 receptacle
- UL listed & RoHS compliant
- Available in 1, 3, & 10ft lengths
- Only in black

P10A-SH-15P-C13
VALUE

ECONOMY SHIELDED POWER CORD 10 AMP 5-15 PLUG TO IEC C13 RECEPTACLE

- Ideal for EMI sensitive installations
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT shielded cable
- NEMA 5-15 Plug to IEC 320 C13 receptacle
- UL listed & RoHS compliant
- Available in 6 & 12ft lengths
- Only in black

P10A-15R-C14
VALUE

ECONOMY POWER CORD 10 AMP 5-15 RECEPTACLE TO IEC C14 PLUG

- Ideal for cord management in racks & cabinets
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT cable
- NEMA 5-15 Receptacle to IEC 320 C14 Plug
- UL listed & RoHS compliant
- Available in 1 & 6ft lengths
- Only in black

P10A-A115P-C7
VALUE

ECONOMY POWER CORD 10 AMP 1-15 PLUG TO IEC C7 RECEPTACLE

- Excellent appliance replacement cord in racks & cabinets
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT cable
- NEMA 1-15 Plug to IEC 320 C7 receptacle
- UL listed & RoHS compliant
- Available in 3 & 10ft lengths
- Only in black

P10A-C13-C14
VALUE

ECONOMY POWER EXTENSION CORD 10 AMP IEC C13 RECEPTACLE TO IEC C14 PLUG

- Ideal to extend existing NEMA 5-15P to C13 cords
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT cable
- IEC 320 C13 receptacle to IEC 320 C14 plug
- UL listed & RoHS compliant
- Available in 3, 6, & 12ft lengths
- Only in black

P13A-C13-C14
VALUE

ECONOMY POWER EXTENSION CORD 13 AMP IEC C13 RECEPTACLE TO IEC C14 PLUG

- Ideal to extend existing NEMA 5-15P to C13 cords
- 16 AWG copper conductors
- 125 Volt, 13 Amp rated SJT Cable
- IEC 320 C13 receptacle to IEC 320 C14 plug
- UL listed & RoHS compliant
- Available in 3, 6, & 10ft lengths
- Only in black

P15A-C13-C14
VALUE

ECONOMY POWER EXTENSION CORD 15 AMP IEC C13 RECEPTACLE TO IEC C14 PLUG

- Ideal to extend existing NEMA 5-15P to C13 cords
- 14 AWG copper conductors
- 250 Volt, 15 Amp rated SJT cable
- IEC 320 C13 receptacle to IEC 320 C14 plug
- UL listed & RoHS compliant
- Available in 3, 6 & 12ft lengths
- Only in black

P13A-15P-15R

VALUE



ECONOMY POWER CORD 13 AMP 5-15 PLUG TO 5-15 RECEPTACLE

- Ideal for cord management in racks & cabinets
- 16 AWG copper conductors
- 125 Volt, 13 Amp rated SJT cable
- NEMA 5-15 Plug to NEMA 5-15 receptacle
- UL listed & RoHS compliant
- Available in 1, 6, 10, 15 & 25ft lengths
- Only in black

P15A-15P-215R-Y

VALUE



ECONOMY POWER SPLITTER CORD 15 AMP 5-15 PLUG TO TWO 5-15 RECEPTACLES

- Ideal to add a second power receptacle in a corded environment
- 14 AWG copper conductors
- 250 Volt, 15 Amp rated SJT cable
- NEMA 5-15 Plug to two NEMA 5-15 receptacles
- UL listed & RoHS compliant
- 14 inches long
- Only in black

P006

BEST



TRIPPLITE POWER CORD 10 AMP 5-15 PLUG TO IEC C13 RECEPTACLE

- Ideal for cord management in racks & cabinets
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT cable
- NEMA 5-15 plug to IEC 320 C13 receptacle
- UL listed & RoHS compliant
- Available in 1, 2, 3, 4, 6, 10, 15 & 25ft lengths
- Only in Black

P007

BEST



TRIPPLITE POWER CORD 15 AMP 5-15 PLUG TO IEC C13 RECEPTACLE

- Ideal for cord management in racks & cabinets
- 14 AWG copper conductors
- 250 Volt, 15 Amp rated SJT cable
- NEMA 5-15 plug to IEC 320 C13 receptacle
- UL listed & RoHS compliant
- Available in 2, 3, 6 10 & 12ft lengths
- Only in black

P002

BEST



TRIPPLITE POWER CORD 10 AMP 5-15 RECEPTACLE TO IEC C14 PLUG

- Ideal for cord management in racks & cabinets
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT cable
- NEMA 5-15 receptacle to IEC 320 C14 plug
- UL listed & RoHS compliant
- Available in 1 & 6ft lengths
- Only in black

P004

BEST



TRIPPLITE POWER EXTENSION CORD 10 AMP IEC C13 RECEPTACLE TO IEC C14 PLUG

- Ideal to extend existing NEMA 5-15P to C13 cords
- 18 AWG copper conductors
- 125 Volt, 10 Amp rated SJT cable
- IEC 320 C13 receptacle to IEC 320 C14 plug
- UL listed & RoHS compliant
- Available in 1, 2, 3, 4, 6, 8, 10 & 15ft lengths
- Only in black

P005

BEST



ECONOMY POWER EXTENSION CORD 10 AMP IEC C13 RECEPTACLE TO IEC C14 PLUG

- Ideal to extend existing NEMA 5-15P to C13 cords
- 14 AWG copper conductors
- 250 Volt, 15 Amp rated SJT cable
- IEC 320 C13 receptacle to IEC 320 C14 plug
- UL listed & RoHS compliant
- Available in 2, 6 & 10ft lengths
- Only in black

P022

BEST



ECONOMY POWER EXTENSION CORD 13 AMP IEC C13 RECEPTACLE TO IEC C14 PLUG

- Ideal for cord management in racks & cabinets
- 18 AWG copper conductors
- 125 Volt, 13 Amp rated SJT cable
- NEMA 5-15 Plug to NEMA 5-15 receptacle
- UL listed & RoHS compliant
- Available in 1, 5 & 25ft lengths
- Only in black

P036

BEST



ECONOMY POWER EXTENSION CORD 15 AMP IEC C13 RECEPTACLE TO IEC C14 PLUG

- Ideal for heavy duty server power extension
- 12 AWG copper conductors
- 250 Volt, 20 Amp rated SJT cable
- IEC 320 C13 receptacle to IEC 320 C20 plug
- UL listed & RoHS compliant
- Available in 2, 6 & 10ft lengths
- Only in black

SSF BULK FIBER SOLUTIONS

**Stronger, Safer
and Faster than
standard fiber
optic cable!**



- **10,000x's THE FLEX LIFE OF STANDARD FIBER!**
Extremely high mechanical fatigue rating. This makes SSF Fiber 10,000x's less susceptible to breaking due to bending. SSF Fiber has a pull tension that is 2.5 – 4x's that of UTP!
- **NEARLY IMPOSSIBLE TO GENERATE GLASS SLIVERS DURING STANDARD USE!** SSF Fiber is completely safe to handle & will not present the inherent safety concerns that conventional glass fiber brings.
- **33% LABOR SAVINGS USING OUR FIELD TERMINABLE SC PLUGS.** The termination process for SSF Fiber is very simple; it does not require a trained/certified fiber technician.
- **THE PATENTED POLYMER COATING ON SSF FIBER.** Guarantees no contamination reaches the underlying glass. Moisture, dirt & even human skin oils are kept from the signal carrying core & cladding by the proprietary coating. This feature increases the lifetime of the fiber well above & beyond standard fiber constructions.
- **MICRO-DISTRIBUTION SSF FIBER IS THE ULTIMATE IN SMALL DIAMETER FIBER CABLE.** Have a small conduit? Pull many more fibers than standard construction tight buffer fiber solutions. Even the armored fiber measures in under ¼ inch in diameter for up to 12 fibers.

**TO ORDER, CONTACT
LIBERTY AV TODAY!**



LIBERTY
AV SOLUTIONS

RUN WITH US



Liberty's SSF fiber solution is a leap ahead for field installation! Increasing the speed, safety & efficiency of fiber installations while reducing the tooling required to terminate fiber optic cables!




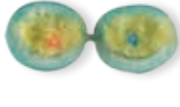
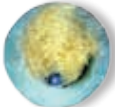











KEY FEATURES

- Integral proprietary & patented coating provides incredible glass protection
- Very small diameter distribution fiber for maximum fiber counts in conduit limited installations
- Simplified termination process designed for ease of use & installation efficiency gains
- Bend longevity for 10,000x's longer life time than normal fibers
- Increased safety factor due to the incredible bend insensitivity
- Glass fiber remains protected at all times from the elements
- High mechanical strength & superior fatigue values
- Ultra low attenuation loss on tight bend radius
- Exclusive 250um Soft Peel® jacket identifier in standard fiber color codes

No stripping required | Incredible bend longevity assured for 10,000x's longer lift times than normal glass fibers

PRODUCTS

- OM3 50 micron Laser Optimized fiber cables, OM2 & singlemode
- Two, four, & six fiber Micro-Distribution format cables with a maximum diameter of 3.2mm in both plenum and riser formats
- One & two fiber assembly style format for simplex & duplex patch cords or one & two fiber installations
- Four fiber Breakout format cables with 2mm sub units in plenum indoor & indoor/outdoor formats
- Easy apply SC connectors for quick & reliable field termination in convenient 10-packs
- SC-SC, LC-LC & SC-LC duplex fiber jumpers in one, two, three, five & 10m lengths

Micro-Distribution Style FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	1FPINSM10-D 	Assembly Style INDOOR FIBER OPTIC CABLE OM3 50/125 MULTIMODE	2FRINSM10-Z 
Micro-Distribution Style FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	1FRINSM10-D 	Micro-Distribution Style INDOOR FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	6FPINSM10-D 
Breakout Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FPINSM10-BO 	Micro-Distribution Style INDOOR FIBER OPTIC CABLE 6 FIBER OM3 50/125 MULTIMODE	6FRINSM10-D 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FPINSM10-D 	Breakout Style INDOOR FIBER OPTIC CABLE OM3 50/125	4FPINSM10-BO 
Assembly Style INDOOR FIBER OPTIC CABLE OM3 50/125 MULTIMODE	2FPINSM10-Z 	Micro-Distribution Style INDOOR FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	4FPINSM10-D 
Breakout Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FRINSM10-BO 	Breakout Style INDOOR FIBER OPTIC CABLE 4 FIBER OM3 50/125 MULTIMODE	4FRINSM10-BO 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FRINSM10-D 	Micro-Distribution Style INDOOR FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	4FRINSM10-D 

Liberty's SSF fiber redefines how optical cables can be installed and terminated. SSF fiber optics incorporate a patented polymeric coating that surrounds the glass fiber. SSF fibers are stronger, safer and allow for faster terminations compared to all other glass fibers.

SSF fiber is compatible with all common connector systems for standard 50/125 multimode and 9/125 single mode fibers and are available in today's most common cabling configurations for optical cables.

SSF fiber optic cabling eliminates many of the processes involved in the termination of fiber optic cable while adding strength and safety that is unmatched by any other optical fiber. SSF's coated fiber provides protection for bend longevity assured for 10,000 x's longer lift times and superior mechanical strength compared to all other commercially available glass fibers. This allows the installer to quickly terminate mechanical splice style connections and eliminates the imperfections or scarring of the glass caused by stripping when terminating either mechanical or epoxy style connectors. SSF supports all broadband applications.

Liberty's SSF fiber is compatible with all common connector systems on the market for 50/125um multimode and 9/125um single mode fiber optic cables. Get your connectors and the complete termination kit at Liberty!

STRONGER
SAFER
FASTER!



CONNECTOR PACK NOT INCLUDED, PART #FASCM10

LWFO TK

Field Assembly Fiber Optic Termination kit

Features and Benefits

- Termination tooling kit for SC, LC & ST connectors
- Includes VFL, cleaver, scissors, stripper
- Ideally set up for SSF Fiber termination

Applications

- Applying field assembly fiber optic connectors
- Can be adjusted for other brand connectors



FASCM10

Field Assembly SC Fiber Optic Connector for OM3/4 Multimode

Features and Benefits

- SC plug format
- 50/125 multimode fiber OM3 or OM4
- Sold in multiples of 10 only
- Fits Breakout and Distribution style cable
- Ideal for SSF Fiber terminations

Applications

- 10/100/1000BaseT ethernet, high bandwidth digital media
- Audio, video & security



PHYSICAL CHARACTERISTICS

Core Diameter 50.0 ± 2.5 (µm)

Core Non-circularity ≤ 5 (%)

Core / Hybrid Cladding Concentricity Error ≤ 3.0 (µm)

Hybrid Cladding Diameter 125 ± 1 (µm)

Hybrid Cladding Non-Circularity ≤ 3.0 (%)

Protective Coating Concentricity Errors 3.0 (µm)

Soft-Peel Jacket Identifier 245 ± 5

Coating Strip Force (typical) ≤ 100 (g)

Color Coating Diameter 250 ± 10 (µm)

Fiber Curl ≤ 2 (m)

Proof Test 100 (Kps)

Bend Induced Attenuation at 1300 nm ≤ 1.0 (dB)

(100 turns around a mandrel of 75 mm diameter)

Dynamic fatigue 23oC, 41%RH (nd) >30

Length (Typical) 1.0 – 8.8 (Km)

OVERFILLED MODAL BANDWIDTH

850 nm ≤ 1500 (MHz/km)

1300 nm ≤ 500 (MHz/km)

Differential Mode Delay 850nm ≤ 2000 (MHz-km)

BACKSCATTER CHARACTERISTICS

Attenuation Directional Uniformity ≤ 0.05 (dB/km)

Attenuation Uniformity ≤ 0.05 (dB)

Group Index of Refraction

850 nm 1.481

1300 nm 1.476

Attenuation Directional Uniformity ≤ 0.05 (dB/km)

Attenuation Uniformity ≤ 0.05 (dB)

Group Index of Refraction

850 nm 1.481

1300 nm 1.476

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 850nm & 1300nm ≤ 0.1 (dB/km)

Induced Attenuation – 40oC to +85oC

Water Soak Dependence at 850nm & 1300nm ≤ 0.2 (dB/km)

Induced Attenuation at 23oC for 30 days

Damp Heat Dependence at 850nm & 1300nm ≤ 0.2 (dB/km)

Induced Attenuation at 85oC, 85%R.H., 30 days

Dry Heat Dependence at 850nm & 1300nm ≤ 0.2 (dB/km)

Induced Attenuation at 85oC, 85%R.H., 30 days

OPTICAL CHARACTERISTICS*

Attenuation Coefficient

850 nm ≤ 3.0 (dB/km)

1300 nm ≤ 1.0 (dB/km)

Numerical Aperture 0.200 ± 0.015

*Ensured via minEMBC per TIA/EIA 455-220A and IEC 60793-1-49, for high performance laser based systems.

STRONGER, SAFER, FASTER (SSF) LIFETIME FIBER OPTIC PATCH CABLES

DOM3NLCCLC | Stronger, Safer, Faster (SSF) Lifetime Fiber Optic Patch cable OM3 Laser Optimized Multimode LC-L



Features and Benefits

- Duplex LC to Duplex LC FPC/SPC format connectors
- Stronger, Safer, Faster (SSF) fiber bulk cable
- 10,000 times the flex life of standard fiber cables
- Two fiber 50/125 laser optimized multimode OM3 fiber
- Standard lengths 1, 2, 3, 5 & 10m
- NEC OFNR, CEC FT4 & RoHS compliant

Applications

- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G ethernet
- Digital multimedia patching & interconnection
- Crestron, AMX & Savant standard fiber specification

TECH SPECS

MODEL	Description
DOM3NLCCLC-001M	3.3' Teal
DOM3NLCCLC-002M	6.6' Teal
DOM3NLCCLC-003M	10' Teal
DOM3NLCCLC-005M	16.5' Teal
DOM3NLCCLC-010M	33' Teal

DOM3NLCSC | Stronger, Safer, Faster (SSF) Lifetime Fiber Optic Patch cable OM3 Laser Optimized Multimode LC-SC



Features and Benefits

- Duplex LC to Duplex LC FPC/SPC format connectors
- Stronger, Safer, Faster (SSF) fiber bulk cable
- 10,000 times the flex life of standard fiber cables
- Two fiber 50/125 laser optimized multimode OM3 fiber
- Standard lengths 1, 2, 3, 5 & 10m
- NEC OFNR, CEC FT4 & RoHS compliant

Applications

- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G ethernet
- Digital multimedia patching & interconnection
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TECH SPECS

MODEL	Description
DOM3NLCSC-001M	3.3' Teal
DOM3NLCSC-003M	6.6' Teal
DOM3NLCSC-005M	10' Teal
DOM3NLCSC-010M	16.5' Teal

DOM3NSCSC | Stronger, Safer, Faster (SSF) Lifetime Fiber Optic Patch cable OM3 Laser Optimized Multimode SC-SC



Features and Benefits

- Duplex LC to Duplex LC FPC/SPC format connectors
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TECH SPECS

MODEL	Description
DOM3NSCSC-001M	3.3' Teal
DOM3NSCSC-002M	6.6' Teal
DOM3NLCCLC-003M	10' Teal
DOM3NLCCLC-005M	16.5' Teal
DOM3NLCCLC-010M	33' Teal

PRODUCT HIGHLIGHTS

- WIDE SELECTION
- UL, CSA & ROHS
- HIGH QUALITY PRODUCT
- COMPETITIVE PRICING
- ECONOMY & PREMIUM LEVELS
- HIGH SPEED HDMI®
- COPPER & FIBER VERSIONS
- PLENUM, NON-PLENUM & AWM RATED

D2-HDSEM-M SERIES LIBERTY D2 HIGH SPEED HDMI WITH ETHERNET



- 28 & 26 AWG TMDs pairs
- Low profile molded head
- High retention plugs up to 12 lbs
- CL2 & CMG FT4 rated, RoHS compliant
- 5m & up feature RedMere® Chipsets

HOME THEATER GRADE

- 5m & longer are directional
- 10.2 Gbps, 4k video, all HDMI® audio formats
- Supports CEC, audio return & ethernet
- Lengths from 1 to 10m
- Black with black molded heads & blue highlights

BEST

E2-HDSEM-M SERIES LIBERTY E2 HIGH SPEED HDMI WITH ETHERNET



- 28 & 26 AWG TMDs pairs
- Low profile molded head
- High retention plugs up to 12 lbs
- CL2 & CMG FT4 rated, RoHS compliant
- 5m & up feature RedMere® Chipsets

COMMERCIAL GRADE

- 5m & longer are directional
- 10.2 Gbps, 4k video, all HDMI® audio formats
- Supports CEC, audio return & ethernet
- Lengths from ½ to 20m
- Black with blue molded heads

BETTER

M2-HDSEM-M SERIES LIBERTY M2 HIGH SPEED HDMI WITH ETHERNET



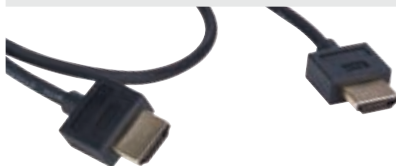
- 30 AWG copper TMDs pairs
- Super low profile molded heads
- High retention plugs up to 12 lbs
- AWM rated, RoHS compliant

PERFECT FOR PATCHING CABLES IN RACKS

- Up to 8ft, 10.2 Gbps, up to 15ft 5.0 Gbps
- Supports CEC, audio return & ethernet
- Available in 1,2,3,4,5,6,8,10,12 & 15ft
- Ultra flexible black with black molded heads

BETTER

E-MHDM-M SERIES LIBERTY HIGH SPEED MICRO HEAD HDMI WITH ETHERNET



- HDMI® "A" male to "A" male connectivity
- Ultra small flexible diameter cable 3.6mm in diameter
- Flexible polyvinyl chloride jacket
- AWM rated, RoHS compliant

MAXIMUM FLEXIBILITY PERFORMANCE

- ATC certified HDMI® high speed with ethernet
- 10.2 Gbps / 4k x 2k / 3D / CEC
- Lengths 2m & longer are directional
- 4m length does not support ethernet

GOOD

Z100HDE SERIES LIBERTY HIGH SPEED HDMI WITH ETHERNET



- 28 AWG copper TMDs pairs
- Economy public mold design
- AWM rated, RoHS compliant
- 10.2 Gbps, 4k video, all HDMI® audio formats

IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS

- Supports CEC, audio return & ethernet
- Available in 3, 6, 10, 15 & 25ft lengths
- Quantity discounts
- Black

VALUE

Z100HD SERIES MARATHON HIGH SPEED HDMI



- 28 AWG copper TMDs pairs
- Economy public mold design
- AWM rated, RoHS compliant
- 10.2 Gbps, 4K video, all HDMI® audio formats

IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS

- Supports CEC, audio return
- Available in 6, 10 & 12 foot lengths
- Quantity discounts
- Black

VALUE

P-HDM-M SERIES LIBERTY PLENUM HDMI WITH ETHERNET



- 24 AWG copper TMDs pairs
- Super low profile molded heads
- CMP FT6 rated, RoHS compliant
- 8m high speed HDMI® with ethernet
- 10 & 12m passive standard HDMI®

PLENUM RATED COMMERCIAL GRADE

- 15m & longer feature RedMere® Chipsets
- 15m & longer are directional
- Supports 1080P, audio return (8-12m CEC)
- Available in 8,10,12, 15 & 23m
- Black with black molded heads

GOOD

DL-HFC SERIES DIGITALINX PLENUM RATED OPTIC HDMI WITH DETACHABLE HEADS



- Plenum rated cable for all installations
- Ultra-small diameter cable
- Detachable HDMI TX & RX units from main body
- No external power needed, uses equipment power

HYBRID COPPER/FIBER

- NEC CMP-OF, CEC FT6, HDCP 2.2, RoHS compliant
- Lengths: 25, 35, 50 & 75ft
- HDMI High Speed, 21.0 Gbps, 4k x 2k@60Hz, 3D, all audio

BEST

DL-AOCHP SERIES LIBERTY PLENUM HYBRID FIBER HDMI



- Polymer 4-fiber combined with copper wires
- Super small flat profile cable
- Extremely low bend radius
- NEC CMP, CEC CMP FT6, RoHS compliant

HYBRID FIBER/COPPER HIGH SPEED

- Directional Cables
- 6.75 Gbps, 1080P video, all HDMI® audio
- Lengths from 10 to 60m
- Gray jacket with black ABS heads

BEST

HD-1000 SERIES PPC® LOCKING HIGH SPEED HDMI WITH ETHERNET



- 28 AWG copper TMDS pairs
- True Locking HDMI® feature up to 25lbs+
- CL2, CMG FT4, RoHS compliant
- 10.2 Gbps, 4K video, all HDMI® audio formats

MAXIMUM LOCKING PERFORMANCE PACKAGE

- Supports CEC, audio return & ethernet
- Available in 2,4,8,16,25,35 & 50ft lengths
- 16ft & up are active and directional
- Gray with gloss nickel metal hoods

BEST

HD-700 SERIES PPC® LOCKING HIGH SPEED HDMI WITH AUDIO RETURN



- 28 AWG copper TMDS pairs
- True Locking HDMI® feature up to 25lbs+
- CL2, CMG FT4, RoHS compliant
- 10.2 Gbps, 4K video, all HDMI® audio formats

LOCKING PERFORMANCE PACKAGE

- Supports CEC, audio return & ethernet
- Available in 2,4,8,16,25,35 & 50ft lengths
- 16ft & up are active & directional
- Black with gun metal metallic hoods

BETTER

HD-600 SERIES PPC® HIGH RETENTION HIGH SPEED HDMI WITH ETHERNET



- 28 AWG copper TMDS pairs
- High Retention plugs up to 12lbs
- CL2, CMG FT4, RoHS compliant
- 10.2 Gbps, 4K video, all HDMI® audio formats

IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS

- Supports CEC, audio return & ethernet
- Available in 3, 6 & 12ft lengths
- Thumb latch and release feature
- Black with black ABS hoods

GOOD

DFO-1000P CELERITY PLENUM RATED FIBER OPTIC HDMI LONG DISTANCE CABLE



- Fiber Optic Ribbon Cables
- Detachable HDMI® TX and RX modules
- Handles up to 60lbs of pull force
- OFNP FT6 rated, RoHS Compliant
- Miniature molded micro USB format (not USB)



Detachable HDMI connector makes pre-wiring of the fiber optic cable as easy as plug & play

PLENUM RATED FIBER FEATURING DETACHABLE HEADS

- 21.0 Gbps, 4K@60Hz ready, all HDMI® audio
- Supports CEC, audio return
- Lengths from 35 to 1000ft
- Requires powered receptacles on both sides
- Black cable and black ABS ends & modules



Detachable Fiber Optic HDMI Connector (USB power required on the receiver side of the installation)

BEST

HD TERMINATION

TERMINATE IN 5 MINUTES!



WATCH IT NOW!
HD TERMINATION

Perfect for HD custom cable lengths in the field!

- Locking HDMI connector technology increases retention up to 400%
- Customize your HD cable lengths to professionally dress racks & minimize excess cable
- Supports HDMI with ethernet, CEC and bi-directional audio formats
- Send 1080p video up to 55ft with optional extender



RIBBON CABLE
DL-HDMCBL



CRIMP & CUTTING TOOL
DL-HDMHT






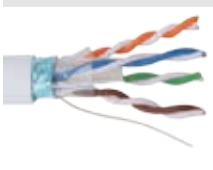


CONNECTORS & SHELLS
DL-HDMCPK





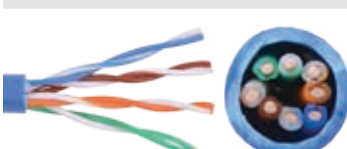




OPTIONAL EXTENDER
74-035-01

PRODUCT HIGHLIGHTS

- TRULY 3RD PARTY CERTIFIED BY UL OR ETL
- ABSOLUTELY COMPLIANT!
- HIGH QUALITY PRODUCT
- COMPETITIVE PRICING
- COOL SPOOL® REELS & PAYOUT BOXES
- CATEGORY 5E, 6, 6A & CATEGORY 7
- SHIELDED AND UNSHIELDED
- PLENUM AND RISER RATED

24-4P-L7SH SHIELDED S/FTP ISO 11801 CLASS F CATEGORY 7		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BEST
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Individually shielded pairs w/overall braid • CM or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ISO 11801 Class F, AKA Cat 7 • 10GB Ethernet/4K HDBaseT • Blue jacket only 	Tele-TitanXg®: 106190 / 106192 Field Terminable: OCCSFP6A Field Terminable: 1401405012-I	12516 -N/A- -N/A-	90170 -N/A- -N/A-
24-4P-P-L7SH SHIELDED S/FTP ISO 11801 CLASS F CATEGORY 7 – PLENUM		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BEST
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Individually shielded pairs w/overall braid • CM or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ISO 11801 Class F, AKA Cat 7 • 10GB ethernet/4K HDBaseT • Blue jacket only 	Tele-TitanXg®: 106190 / 106192 Field Terminable: OCCSFP6A Field Terminable: 1401405012-I	12516 -N/A- -N/A-	90170 -N/A- -N/A-
24-4P-L6ASH SHIELDED F/UTP CATEGORY 6A		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BEST
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & overall foil shielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Cat 6a • 10GB ethernet/HDBaseT • White jacket only 	Standard: 111S08080016C34 Kitted: RJ45-STP-L6 Tele-TitanXg®: 106190 / 106192 Field Terminable: OCCSFP6A	100054LW 100054LW 12516 -N/A-	90131LW 90131LW 90170 -N/A-
24-4P-P-L6ASH SHIELDED F/UTP CATEGORY 6A – PLENUM		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BEST
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & overall foil shielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Cat 6a • 10GB ethernet/HDBaseT • White jacket only 	Standard: 111S08080016C34 Kitted: RJ45-STP-L6 Tele-TitanXg®: 106190 / 106192 Field Terminable: OCCSFP6A	100054LW 100054LW 12516 -N/A-	90131LW 90131LW 90170 -N/A-
24-4P-L6-EN EN SERIES CATEGORY 6		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BEST
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & unshielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Cat 6 • Positive ACR to 550 MHz • 10 colors 	EZ-RJ45®: 100 011LW Standard: 11108080034	100054LW 100054LW	90131LW 90131LW
24-4P-P-L6-EN EN SERIES CATEGORY 6 – PLENUM		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BEST
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & unshielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Cat 6 • Positive ACR to 550 MHz • 10 colors 	EZ-RJ45®: 100 011LW Standard: 11108080034	100054LW 100054LW	90131LW 90131LW

24-4P-L6SH SHIELDED F/UTP CATEGORY 6		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BETTER
	FEATURES	CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none">• Solid annealed bare copper conductors• HDPE or FEP insulation• Tightly twisted & unshielded• CMR or CMP rated, RoHS compliant	<ul style="list-style-type: none">• Cool Spool Reels• ANSI/TIA-568C Verified Cat 6• Positive ACR to 550 MHz• 3 colors	Standard: 111S08080016C34 Kitted: RJ45-STP-L6 Tele-TitanXg®: 106190 / 106192 Field Terminable: OCCSFP6A	100054LW 100054LW 12516 -N/A-	90131LW 90131LW 90170 -N/A-
24-4P-P-L6SH SHIELDED F/UTP CATEGORY 6 – PLENUM		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BETTER
	FEATURES	CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none">• Solid annealed bare copper conductors• HDPE or FEP insulation• Tightly twisted & unshielded• CMR or CMP rated, RoHS compliant	<ul style="list-style-type: none">• Cool Spool Reels• ANSI/TIA-568C Verified Cat 6• Positive ACR to 550 MHz• 3 colors	Standard: 111S08080016C34 Kitted: RJ45-STP-L6 Tele-TitanXg®: 106190 / 106192 Field Terminable: OCCSFP6A	100054LW 100054LW 12516 -N/A-	90131LW 90131LW 90170 -N/A-
24-4P-L6-HT HOMETRAX™ CATEGORY 6 CABLES		IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS			BETTER
	FEATURES	CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none">• Solid annealed bare copper conductors• High Density Polyethylene Insulation• Tightly twisted & unshielded• NEC CMR, CEC CMR FT4, RoHS compliant	<ul style="list-style-type: none">• Nested box packaging only• ANSI/TIA-568C Verified Cat 6• Positive ACR to 275 MHz• 4 colors	EZ-RJ45®: 100 011LW Standard: 11108080034	100054LW 100054LW	90131LW 90131LW
24-4P-L6SH-HT SHIELDED F/UTP CATEGORY 6		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BETTER
	FEATURES	CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none">• Solid annealed bare copper conductors• HDPE or FEP insulation• Tightly twisted & overall foil shielded• CM or CMP rated, RoHS compliant	<ul style="list-style-type: none">• Cool Spool Reels• ANSI/TIA-568C Verified Cat 6• Positive ACR past 300 MHz• 3 colors	Standard: 111S08080016C34 Kitted: RJ45-STP-L6 Tele-TitanXg®: 106190 / 106192 Field Terminable: OCCSFP6A	100054LW 100054LW 12516 -N/A-	90131LW 90131LW 90170 -N/A-
24-4P-L5-EN EN SERIES CATEGORY 5E		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BETTER
	FEATURES	CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none">• Solid annealed bare copper conductors• HDPE or FEP insulation• Tightly twisted & overall foil shielded• CMR or CMP rated, RoHS compliant	<ul style="list-style-type: none">• Cool Spool Reels & Nested Boxes• ANSI/TIA-568C Verified Cat 5e• Positive ACR to 350 MHz• 10 colors	EZ-RJ45®: 100 003B Standard: 10005USOP	100054LW 100054LW	90131LW 90131LW
24-4P-P-L5-EN EN SERIES CATEGORY 5E – PLENUM		HIGH QUALITY FOR SUPERIOR PERFORMANCE			BETTER
	FEATURES	CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none">• Solid annealed bare copper conductors• HDPE or FEP insulation• Tightly twisted & overall foil shielded• CMR or CMP rated, RoHS compliant	<ul style="list-style-type: none">• Cool Spool Reels & Nested Boxes• ANSI/TIA-568C Verified Cat 5e• Positive ACR to 350 MHz• 10 colors	EZ-RJ45®: 100 003B Standard: 10005USOP	100054LW 100054LW	90131LW 90131LW
24-4P-L5SH-EN EN SERIES SHIELDED F/UTP CATEGORY 5E		IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS			BETTER
	FEATURES	CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none">• Solid annealed bare copper conductors• HDPE or FEP insulation• Tightly twisted & overall foil shielded• CMR or CMP rated, RoHS compliant	<ul style="list-style-type: none">• Cool Spool Reels• ANSI/TIA-568C Verified Cat 5e• Positive ACR past 200 MHz• 4 colors	EZ-RJ45®: 100 003B Standard: 10005USOP	100054LW 100054LW	90131LW 90131LW

24-4P-P-L5SH EN SERIES SHIELDED F/UTP CATEGORY 5E – PLENUM		IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS			BETTER
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & overall foil shielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Cat 5e • Positive ACR past 200 MHz • 4 colors 	EZ-RJ45®: 100 003B Standard: 10005USOP	100054LW 100054LW	90131LW 90131LW
24-4P-L5-HT HOMETRAX™ CATEGORY 5E CABLES		IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS			BETTER
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • High Density Polyethylene Insulation • Tightly twisted & unshielded • NEC CMR, CEC CMR FT4, RoHS compliant 	<ul style="list-style-type: none"> • Nested box packaging only • ANSI/TIA-568C Verified Cat 5e • Positive ACR past 200 MHz • 4 colors 	EZ-RJ45®: 100 003B Standard: 10005USOP	100054LW 100054LW	90131LW 90131LW
24-4P-L5SH-HT HOMETRAX™ SHIELDED F/UTP CATEGORY 5E		IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS			BETTER
FEATURES		CONNECTOR(S)	CRIMP TOOLING	TOOL KIT	
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & overall foil shielded • CMR rated, RoHS compliant 	<ul style="list-style-type: none"> • Plain wooden spools • ANSI/TIA-568C Verified Cat 5e • 3 colors 	EZ-RJ45®: 100 003B Standard: 10005USOP	100054LW 100054LW	90131LW 90131LW

LAN TOOLS & TERMINATION KITS



90170 NCS TELE-TITANXG CAT6A/10GIG CRIMP TOOL KIT

- Large diameter Cat 6, 6A & 7 terminations
- LAN up to 10G networking, HDBaseT cable terminations



12516 TELE-TITANXG CAT6A/10GIG STRAIN RELIEF CRIMP TOOL

- Large diameter Cat 6, 6A & 7 terminations
- LAN up to 10G networking, HDBaseT cable terminations



90131LW WHITE CATMASTER TOOL KIT

- Termination of RJ45 & RJ25 (RJ11, RJ12) plugs
- Termination of EZ-RJ45 feed through plugs
- LAN & Balun support



100054LW HEAVY DUTY EZ-RJ45 CRIMP TOOL

- Modular plug crimp & cut action for EZ-RJ45 connectors
- 4P4C through 8P8C formats (RJ9/RJ11/RJ45)
- 75% better connector support to reduce issues

**E-DPM-M** DISPLAYPORT CABLES

- 28 AWG cabling
- 3, 6, 10 & 15 ft. lengths
- Supports audio and HDCP
- Thumb activated locking
- Supports resolutions to 3840 × 2160 at 3 & 6ft
- Supports resolutions to 2560 × 1600 at 10 & 15ft

**E-DPM-HDM** DISPLAYPORT TO HDMI CABLES

- 28 AWG cabling
- 3, 6, 10 & 15 ft. lengths
- Supports audio and HDCP
- Thumb activated locking
- Supports resolutions to 3840 × 2160 at 3 & 6ft
- Supports resolutions to 2560 × 1600 at 10 & 15ft

PROJECT STAGING & CUSTOM KITTING

STREAMLINE YOUR INSTALLS AND SAVE LABOR!



CUSTOM KITTING

Streamline your installs with a pre-packaged kit, and reduce multiple shipments to a single manageable delivery.



PROJECT STAGING

Off-site staging program that stages, labels, and palletizes your individual project needs with any product. Ships complete to your site, increasing your efficiencies.

THE LIBERTY EDGE

TIE OUR PRODUCTS
TO OUR SERVICES
AND WE ARE
UNBEATABLE!



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PRODUCT HIGHLIGHTS

- MANUFACTURED TO SCTE REQUIREMENTS
- MATCHING C-TEC2 COMPRESSION PLUGS
- NO MAGNESIUM BRAID SHIELDS HERE
- COMPETITIVE PRICING
- COOL SPOOL® REELS AND PAYOUT BOXES
- SWEEP TESTED TO 3.0 GHZ
- DUAL AND QUAD SHIELDED
- PLENUM AND RISER RATED

RG6-CM DUAL SHIELD NON-PLENUM RG6 FOR CATV & DBS	IDEAL FOR MOST RF VIDEO APPLICATIONS WHERE DC POWER IS NOT NEEDED	GOOD
	<ul style="list-style-type: none"> • Solid copper-clad steel conductors • Foamed Polyethylene Insulation • Bonded foil & 60% aluminum braid shields • NEC CM, CEC CM RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool® Reels • Sweep Tested to 3.0 GHz • Excellent SRL ration • 2 colors
RG6-P-CATV DUAL SHIELD PLENUM RG6 FOR CATV & DBS	IDEAL FOR MOST RF VIDEO APPLICATIONS WHERE DC POWER IS NOT NEEDED	GOOD
	<ul style="list-style-type: none"> • Solid copper-clad steel conductors • Foamed Polyethylene Insulation • Bonded foil & 60% aluminum braid shields • NEC CM, CEC CM RoHS compliant 	<ul style="list-style-type: none"> • Nested box packaging only • ANSI/TIA-568C Verified Category 6 • Positive ACR to 275 MHz • 4 colors
RG6-BC-CATV-DB DUAL SHIELD OUTSIDE PLANT RG6 FOR CATV & DBS	IDEAL ALL AROUND RF VIDEO CABLE FOR OUTDOOR & DIRECT BURIAL APPLICATIONS	GOOD
	<ul style="list-style-type: none"> • Solid bare copper conductors • Foamed Polyethylene Insulation • Bonded foil & 60% aluminum braid shields • Braid shield flooded for water repellant gel 	<ul style="list-style-type: none"> • Cool Spool Reels and Nested Boxes • ANSI/TIA-568C Verified Category 5E • Positive ACR to 350 MHz • 10 colors
QUADFLEX QUAD SHIELD NON-PLENUM RG6 FOR CATV & DBS	IDEAL FOR RF VIDEO NON-DC REQUIRED APPLICATIONS WHERE EXTERNAL INTERFERENCE RESISTANCE IS NEEDED	BETTER
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & unshielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Category 6 • Positive ACR to 550 MHz • 10 colors
QUADFLEX-BC QUAD SHIELD NON-PLENUM RG6 FOR CATV & DBS	IDEAL FOR RF VIDEO DC REQUIRED APPLICATIONS WHERE EXTERNAL INTERFERENCE RESISTANCE IS NEEDED	BETTER
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & overall foil shielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Category 5e • Positive ACR past 200 MHz • 4 colors
RG6-QUAD-CMP QUAD SHIELD PLENUM RG6 FOR CATV & DBS	IDEAL FOR RF VIDEO NON-DC REQUIRED APPLICATIONS WHERE EXTERNAL INTERFERENCE RESISTANCE IS NEEDED	BETTER
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • HDPE or FEP insulation • Tightly twisted & overall foil shielded • CMR or CMP rated, RoHS compliant 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Category 6 • Positive ACR past 300 MHz • 3 colors
RG6-QUAD-DB QUAD SHIELD OUTSIDE PLANT RG6 FOR CATV & DBS	IDEAL FOR RF VIDEO NON-DC REQUIRED APPLICATIONS FOR OUTDOOR & DIRECT BURIAL	BETTER
	<ul style="list-style-type: none"> • Solid annealed bare copper conductors • High Density Polyethylene Insulation • Tightly twisted & overall foil shielded • NEC CMR, CEC CMR FT4, RoHS compliant • Braid shield flooded for water repellant gel 	<ul style="list-style-type: none"> • Cool Spool Reels • ANSI/TIA-568C Verified Category 6A • 10 Gigabit Ethernet infrastructure cable • White jacket only
RG6Q-CM-SIAM QUAD SHIELD NON-PLENUM DUAL RG6 FOR CATV & DBS	IDEAL FOR RF VIDEO NON-DC REQUIRED APPLICATIONS WHERE EXTERNAL INTERFERENCE RESISTANCE IS NEEDED	BETTER
	<ul style="list-style-type: none"> • Solid copper-clad steel center conductor • Foamed Polyethylene Insulation • Two 100% foil & two braid shields 60/40% • NEC CM, CEC CMG FT4, RoHS compliant 	<ul style="list-style-type: none"> • Wooden spools • Sweep Tested to 3.0 GHz • Excellent SRL ratio • Black only

RG11-CATV DUAL SHIELD NON-PLENUM RG11 FOR CATV & DBS

IDEAL FOR LONG RUN, LOW LOSS RF VIDEO APPLICATIONS WHERE DC POWER IS NOT NEEDED

BEST



- Solid copper-clad steel center conductor
- Foamed Polyethylene Insulation
- Bonded foil and 60% aluminum braid shields
- NEC CM, CEC CMG FT4, RoHS compliant

- Wooden spools
- Sweep Tested to 3.0 GHz
- Excellent SRL ratio
- Black only

RG11-P-CATV DUAL SHIELD PLENUM RG11 FOR CATV & DBS

IDEAL FOR LONG RUN LOW LOSS RF VIDEO APPLICATIONS WHERE DC POWER IS NOT NEEDED

BEST



- Solid copper-clad steel center conductor
- Foamed Polyethylene Insulation
- Bonded foil and 60% aluminum braid shields
- NEC CM, CEC CMG FT4, RoHS compliant

- Wooden spools
- Sweep Tested to 3.0 GHz
- Excellent SRL ratio
- White only

RG11-BC-CATV-DB DUAL SHIELD OUTSIDE PLANT RG11 FOR CATV & DBS

IDEAL FOR ALL LONG RUN LOW LOSS RF VIDEO CABLE FOR OUTDOOR AND DIRECT BURIAL APPLICATIONS

BEST



- Solid copper-clad steel center conductor
- Foamed Polyethylene Insulation
- Bonded foil and 60% aluminum braid shields
- Braid shield flooded for water repellent gel

- Wooden spools
- Sweep Tested to 3.0 GHz
- Excellent SRL ratio
- Black only

RG11-QUAD-PL QUAD SHIELD PLENUM RG11 FOR CATV & DBS

IDEAL FOR RF VIDEO NON-DC REQUIRED APPLICATIONS WHERE EXTERNAL INTERFERENCE RESISTANCE IS NEEDED

BEST



- Solid copper-clad steel center conductor
- Foamed Polyethylene Insulation
- Two 100% foil and two braid shields 60/40%
- NEC CM, CEC CMG FT4, RoHS compliant

- Cool Spool® Reels
- Sweep Tested to 3.0 GHz
- Excellent SRL ratio
- White only

C-TEC² MATCHING UNIVERSAL CONNECTORS FOR ALL FORMATS

F PLUGS FOR ALL FORMATS

BEST



- Ferrule-less F & M series design allows any sized cable constructions from virtually any manufacturer to fit these connectors
- Significantly reduces the number of connectors required to terminate a variety of cable types

- All-metal connectors with machined slots for ID bands
- Perfect for RF video-CATV, MATV, direct broadcast satellite
- Super-simple termination process, see the video at LibAV.com or scan the QR code below

C-TEC² COMPLETE TOOL PACK CM-TOOL-PAC



WATCH IT NOW!
C-TEC² TERMINATION



CHECK OUT OUR ENTIRE
VIDEO LIBRARY AT LIBAV.COM



C-TEC² TERMINATION SYSTEM

FOR RG59, RG6, RG11, MINI RGB & AUDIO CONNECTORS

PRODUCT HIGHLIGHTS

- SMPTE COMPLIANT FOR SD SIGNALS
- UL, CSA, AND ROHS COMPLIANT
- HIGH QUALITY LOW LOSS PRODUCT
- COMPETITIVE PRICING
- SDI, HD-SDI, 3G-SDI
- MATCHED CONNECTORS
- SWEEP TEST 4.5 GHZ
- PLENUM AND NON-PLENUM

23-MINI-SD LIBERTY MINI-RG59 SERIAL DIGITAL HIGH RESOLUTION COAXIAL CABLE — IDEAL FOR SHORT LENGTH SDI RUNS & SDI PATCHING

GOOD



- 23 AWG solid bare copper center conductor
- Nitrogen injected cellular Polyethylene
- Full Aluminum/Poly/Aluminum inner foil shield
- 95% coverage tinned copper braid shield
- NEC rated CM, CEC rated CMG FT4
- Standard colors black & white

23-MINI-CMP LIBERTY MINI-RG59 SERIAL DIGITAL HIGH RESOLUTION COAXIAL CABLE — IDEAL FOR SHORT LENGTH PLENUM SDI RUNS & SDI PATCHING

GOOD



- 23 AWG solid bare copper center conductor
- Nitrogen injected cellular Fluoropolymer
- Full Aluminum/Poly/Aluminum inner foil shield
- 95% coverage tinned copper braid shield
- NEC rated CMP, CEC rated CMP FT6
- Standard colors black & white

20-CMR-VIDEO LIBERTY RG59 SERIAL DIGITAL HIGH RESOLUTION COAXIAL RISER RATED CABLE — IDEAL FOR MEDIUM LENGTH SDI RUNS

BETTER



- 20 AWG solid bare copper center conductor
- Nitrogen injected cellular Fluoropolymer
- Full Aluminum/Poly/Aluminum inner foil shield
- 95% coverage tinned copper braid shield
- NEC rated CMP, CEC rated CMP FT6
- Standard colors black & white

20-CMP-VID-COAX LIBERTY RG59 SERIAL DIGITAL HIGH RESOLUTION COAXIAL, PLENUM RATED CABLE — IDEAL FOR MEDIUM LENGTH PLENUM SDI RUNS

BETTER



- 20 AWG solid bare copper center conductor
- Nitrogen injected cellular Fluoropolymer
- Full Aluminum/Poly/Aluminum inner foil shield
- 95% coverage tinned copper braid shield
- NEC rated CMP, CEC rated CMP FT6
- Standard colors black & white

18-CMR-SD LIBERTY RG6 SERIAL DIGITAL HIGH RESOLUTION COAXIAL RISER RATED CABLE — IDEAL FOR MEDIUM LENGTH SDI RUNS

BEST



- 18 AWG solid bare copper center conductor
- Nitrogen injected cellular Fluoropolymer
- Full Aluminum/Poly/Aluminum inner foil shield
- 95% coverage tinned copper braid shield
- NEC rated CMP, CEC rated CMP FT6
- Standard colors black & white

18-CMP-VID-COAX LIBERTY RG6 SERIAL DIGITAL HIGH RESOLUTION COAXIAL PLENUM RATED CABLE — IDEAL FOR MEDIUM LENGTH PLENUM SDI RUNS

BEST



- 18 AWG solid bare copper center conductor
- Nitrogen injected cellular Fluoropolymer
- Full Aluminum/Poly/Aluminum inner foil shield
- 95% coverage tinned copper braid shield
- NEC rated CMP, CEC rated CMP FT6
- Standard colors black & white

PRODUCT HIGHLIGHTS

- UL, ETL, ROHS AND REACH
- MANY CHOICES FOR YOUR APPLICATION
- GOOD-BETTER-BEST IN MOST CATEGORIES
- COMPETITIVE PRICING
- COOL SPOOL® REELS AND PAYOUT BOXES
- CUSTOM PRINTING, SPOOLING AND CUT

GENERAL PURPOSE RISER IDEAL FOR COMMERCIAL SOUND APPLICATIONS, TRADITIONAL AND 70 VOLT SYSTEMS

GOOD

FEATURES

- 18, 16, 14 & 12 AWG 2 & 4 conductor
- 7, 19 or 29 strand annealed copper conductors
- Semi-Rigid PVC insulation for lower capacitance
- Riser rated PVC jacketing
- UL listed CMR or CL3R, Canada FT4, RoHS
- Cool Spool 1000ft put ups

12-4C



12-2C



18-2C



16-2C



14-2C



18-4C



16-4C



14-4C



GENERAL PURPOSE PLENUM IDEAL FOR COMMERCIAL SOUND APPLICATIONS, TRADITIONAL AND 70 VOLT SYSTEMS

GOOD

FEATURES

- 16, 14 & 12 AWG 2 & 4 conductor
- 19 or 29 strand annealed copper conductors
- Plenum rated PVC insulation
- Plenum rated PVC jacketing
- UL listed CMP or CL3P, Canada FT6, RoHS
- Cool Spool 1000ft put ups

12-2C-P



18-2C-P



16-2C-P



14-2C-P



18-4C-P



16-4C-P



14-4C-P



TIGHT TUBE PLENUM™ (TTP™) RUGGED HIGH QUALITY FOR SUPERIOR PERFORMANCE AND EASE OF INSTALLATION

BEST

- Stranded Annealed Bare Copper Conductors
- Plenum rated PVC Alloy insulation
- Twisted, unshielded
- Plenum rated PVC Jacket
- NEC CL3P, CEC CMP FT6, RoHS Compliant
- 1000 Foot Spools

10-2C-TTP



16-2C-TTP



12-2C-TTP



16-4C-TTP



14-2C-TTP



PRODUCT HIGHLIGHTS

- UL, ETL, ROHS AND REACH
- MANY CHOICES FOR YOUR APPLICATION
- GOOD-BETTER-BEST IN MOST CATEGORIES
- COMPETITIVE PRICING
- COOL SPOOL® REELS AND PAYOUT BOXES
- COMPETITIVE PRICING
- CUSTOM PRINTING, SPOOLING AND CUTS

HOMETRAX™ IDEAL FOR BUDGET CONSCIOUS INSTALLATIONS		FEATURES	GOOD
16-2C-HT		<ul style="list-style-type: none"> • 16 and 14 AWG 2 and 4 conductor • 41 strand annealed copper conductors • Semi-Rigid PVC insulation for lower capacitance • Flame rated PVC jacketing • UL listed CM or CL3, Canada FT4, RoHS • Nested box packaging only • White Jackets are standard • 500 foot put ups 	
14-2C-HT			
16-4C-HT			
14-4C-HT			
KNOCKOUT PLUS™ STRONGER & SMOOTHER THAN STANDARD		FEATURES	BETTER
16-2C-KO+		<ul style="list-style-type: none"> • 16 and 14 AWG 2 and 4 conductor • 41 strand annealed copper conductors • Semi-Rigid PVC insulation for lower capacitance • 20% thicker Flame rated PVC jacketing • Cool Spool Reels and Nested Boxes • UL listed CM or CL3, Canada FT4, RoHS • 500 or 1000 foot put ups • Custom Colors available with a 10,000 minimum 	
14-2C-KO+			
16-4C-KO+			
14-4C-KO+			
EXTRAFLEX PLUS™ RUGGED HIGH QUALITY, SUPERIOR PERFORMANCE & EASE OF INSTALLATION		FEATURES	BEST
16-4C-EX+		<ul style="list-style-type: none"> • 16, 14, and 12 AWG one and two pair formats • High strand rope lay annealed copper conductors • Foamed Polyethylene insulation • Very thick and strong pressured PVC jacketing • Cool Spool Reels • UL listed CMR or CL3R, Canada FT4, RoHS • THX® Certified, white jackets • 500 and 1000 foot put ups 	
14-4C-EX+			
12-4C-EX+			
16-2C-EX+			
14-2C-EX+			
12-2C-EX+			

ULTRACAP™ THX® CERTIFIED SPEAKER CABLES FOR THE DISCERNING AUDIOPHILE

16-1P-UC



12-1P-UC



14-1P-UC



12-2P-UC



FEATURES

- 16, 14, and 12 AWG one and two pair formats
- High strand rope lay annealed copper conductors
- Foamed Polyethylene insulation
- Very thick and strong pressured PVC jacketing
- Cool Spool Reels
- UL listed CMR or CL3R, Canada FT4, RoHS
- THX® Certified, white jackets
- 500 and 1000 foot put ups

AWESOME

14-2C-TTP



TIGHT TUBE PLENUM®

16-2C-TTP



12-2C-TTP



16-4C-TTP



10-2C-TTP



FEATURES

- 16, 14, and 12 AWG 2 and 4 conductor
- 19 or 29 strand annealed copper conductors
- Plenum rated PVC insulation
- Heavy Plenum rated PVC jacketing
- UL listed CMP or CL3P, Canada FT6, RoHS
- Cool Spool 1000 foot put ups

BEST



AUDIO C-TEC² SYSTEM

Audio C-TEC² connectors slip on easily to the speaker cable conductor & compress on effortlessly with the easy-to-use Audio C-TEC² crimp tools!

Works with all Liberty speaker cable, for in-wall & non in-wall audio applications.

LIS LIBERTY INVENTORY SYSTEM

Accurate Job Costing | Automatic Replenishment | Stock Rotation | Proprietary Stock SKU's | Bar Coding | Free Training & Support

WHAT'S THE BENEFIT?



REDUCED PROCUREMENT COSTS, INCREASED REVENUE:
It's like having a bigger workforce for free!

EASY SCAN & CHECKOUT:
Pay only when you consume the materials

ZERO COST:
No start-up costs or maintenance fees

POSSIBLE SAVINGS:
Tens of thousands of dollars

JOIN THE CROWD!
Some of the best companies in the Pro A/V industry use LIS - you should too!

Liberty's Inventory Services is an on-site consigned inventory management program for all your offices, providing the products that are key to YOUR operation! We manage this through a web portal with minimum and maximum sku's, this ensures that

you never run out of stock of any of your day-to-day installation materials. This service will help reduce procurement and carrying cost associated with your inventory while increasing operational efficiency and increasing productivity.

THOUSANDS OF PRODUCTS AT YOUR FINGERTIPS



THE PROGRAM

- Pay only when you consume the materials
- On-site consigned inventory management program for day-to-day installation materials. Inventory is actually on site, not "virtual" at some unknown vendor warehouse.
- Dedicated LIS Service Coordinator & redundant back-up.
- Live webinar demonstration available.
- Open to the entire catalog of Liberty's products including custom cable, install kits, assemblies, connectors, racks, devices, fiber & more!
- Initial launch package includes an estimated two months supply.
- Automated monthly replenishment of inventory with FREE surface freight. (Racks excluded)
- Liberty provides on-site training synchronized with initial delivery.

THE SYSTEM

- Based on a stand-alone web-portal based system that does not need to directly tie in to dealer's business enterprise system.
- Does not constitute a security threat and is simple to maintain & install.
- Customizable to accommodate different varieties of business methods & systems.
- Product is easily checked in & out with bar code scan gun.

RUN WITH US

Call your rep today to sign up!

*Some requirements and restrictions may apply



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