

DIGI-P123 Technical Specifications

Twelve Input to Three Output Switcher/Scaler/Format Converter

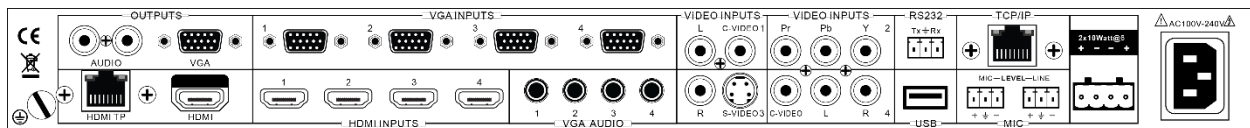
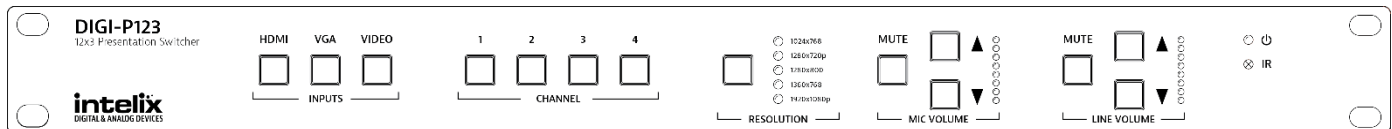
Rev. 140814

The Intelix DIGI-P123 allows the integration of multiple analog and digital devices into a high-definition environment.

The DIGI-P123 allows selection of twelve different sources, and will simultaneously scale the selected video to HDMI, VGA, and HDBaseT outputs. The unit features four HDCP compliant HDMI inputs, four VGA inputs, and four analog video inputs. There are five fixed output resolutions to pick from, and several aspect ratio modes, which will ensure your content is displayed properly. The HDBaseT output will allow you to extend audio, video, and control signals up to 70m away.

The DIGI-P123 offers several unique audio options designed to simplify your installation. All audio inputs are embedded into the HDMI and HDBaseT streams, so you can use your display speakers for audio. Additionally, line level and 8ohm speaker outputs can be used for reinforcement. A balanced input is provided (line or microphone level) which is mixed with the source audio to provide voice lift capabilities; while the volumes of the mic and source can be individually controlled.

The DIGI-P123 can be controlled in many different ways. The front panel offers source selection, output resolution, and volume/mute control, as well as an IR window for use with the included remote control. Third party control systems can utilize TCP/IP, RS232 rear panel, RS232 extended (with a compatible HDBaseT receiver), and front panel IR control. Additionally, a web GUI (Graphic User Interface) allows users to control the unit through a browser on their computer.



Technical Specifications	
Input Connections	
HDMI Inputs	Four (4) HDMI type A Receptacle
VGA Inputs	Four (4) HD15-F, Four (4) 3.5mm TRS-F
Composite Video 1	One (1) RCA-F (video), Two (2) RCA-F (<i>stereo audio shared with S-Video 3</i>)
YPbPr 2 (Component Video)	Three (3) RCA-F (video), Two (2) RCA-F (<i>stereo audio shared with Composite Video 4</i>)
S-Video 3	One (1) 4PMD-F (video), Two (2) RCA-F (<i>stereo audio shared with Composite Video 1</i>)
Composite Video 4	One (1) RCA-F (video), Two (2) RCA-F (<i>stereo audio shared with YPbPr 2</i>)
Microphone Input (Line Level)	One (1) 3-Pole/3.5mm Euroblock (<i>audio summed with Mic Level input</i>)
Microphone Input (Mic Level)	One (1) 3-Pole/3.5mm Euroblock Connector (<i>audio summed with Line Level input</i>)
Control (Front Panel)	Push Button, IR
Control (Rear Panel)	RS232 via 3-Pole/3.5mm Euroblock, TCP/IP via 8P8C, RS232 via HDBaseT Output (8P8C-F)*
Power Input	One (1) IEC-C14 Power Inlet
Firmware Upgrade	USB Type A Female
Output Connections	
HDMI Output	One (1) HDMI type A Receptacle
VGA Output	One (1) HD15-F
Stereo Analog Audio	Two (2) RCA (stereo audio)
HDBaseT Output	One (1) 8P8C-F
Speaker Output	One (1) 4-Pole/5.08mm Euroblock
Video Performance	
HDMI Input Bandwidth	4.95Gbps (1.65Gbps per color)
HDMI Input Resolutions	640x480: 60/72/75/85 Hz, 800x600: 56/60/72/75/85 Hz, 1024x768: 60/70/75/85 Hz, 1280x768: 60 Hz, 1280x1024: 60/75Hz, 1360x768: 60 Hz, 720x480i/p (4:3 and 16:9), 720x576i/p (4:3 and 16:9), 1280x720p: 50/60 Hz, 1920x1080i: 25/30 Hz, 1920x1080p: 50/60 Hz
HDMI Input Compatibility	HDMI 1.3, DVI-D
HDMI Input Compliance	HDCP Compliant**
VGA Input Bandwidth	375MHz
VGA Input Resolutions	640x480: 60/72 Hz, 720x400: 60 Hz, 800x600: 60/72/75 Hz, 1024x768: 60/70/75 Hz, 1280x720: 60 Hz, 1280x768: 60Hz, 1280x960: 60 Hz, 1280x1024: 60/75Hz, 1360x768: 60Hz, 1440x900: 60 Hz, 1600x1200: 60 Hz, 1680x1050: 60 Hz, 1920x1080: 60 Hz
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	1920x1080, 1360x768, 1280x720, 1280x800, 1024x768
Video Impedance	75ohm
Maximum Pixel Clock	145MHz
Video Gain	0dB
Signal Level	0.5V~2.0Vp-p

*Requires Compatible HDBaseT Receiver

**VGA Output will turn off when encrypted content is selected.

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	2x10W @ 8ohm / 2x20W @ 4ohm
Frequency Response	20Hz-20kHz
Stereo Channel Separation	>80dB @ 1kHz
Common Mode Rejection	>90dB @ 20Hz-20kHz
Control Parameters	
RS232	9600 baud
Ethernet	100BaseT
HDBaseT Signal Characteristics	
Maximum Distance	70m (230 ft)
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
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	483 mm x 235 mm x 44 mm (19 in x 9.25 in x 1.73 in) – 1RU
Shipping Weight	3.74 kg (8.25 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	
Maximum Power Consumption	65 watts
Power Supply	100vAC~240vAC, 50/60Hz
Regulatory	CE, RoHS
Other	
Warranty	2 years
Included Accessories	IR Remote, Power Cable, Four (4) Rubber Feet, Serial Cable (DE9-F to Euroblock), Operation Guide
Compatible Receivers (A/V Only)	DIGI-HD70-R
Compatible Receivers (A/V and RS232)	DIGI-HDE-R, DIGI-HD60C-R, FLX-BI4

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