FIBER OPTIC SOLUTIONS

Complete, affordable fiber solutions for your AV infrastructure

- Bulk Fiber Cable
- Connectors
- Tooling
- Pre-Made Patch Cables
- Enclosures
- Patch Panels
- Media Converters
- Long Distance AV Extension Cables
- Active AV Extension Devices
### MULTIMODE OM1: PLENUM AND NON-PLENUM

<table>
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<tr>
<th>Model</th>
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| 4FPIOMM6-BO | ORANGE BREAKOUT STYLE INDOOR/OUTDOOR PLENUM FIBER OPTIC CABLE 4 FIBER OM1 62.5/125 MULTIMODE REEL | - 4 Fiber OM1 62.5/125 multimode  
- Dual layer tight buffer 900 micron  
- Central strength member  
- Breakout construction  
- UV stabilized PVC jacket  
- NEC OFNP, CEC FT6, Sunlight resistant, RoHS compliant  
- Fiber is cut to order, 3,000 foot spools standard |
| 2FRIOMM6-D | BLACK DISTRIBUTION STYLE INDOOR/OUTDOOR FIBER OPTIC CABLE 2 FIBER OM1 62.5/125 MULTIMODE REEL | - 2 Fiber OM1 62.5/125 multimode  
- Dual layer tight buffer 900 micron  
- Central strength member and kevlar yarn  
- Distribution construction  
- UV stabilized PVC jacket  
- NEC OFNP, CEC FT6, Sunlight resistant, 3000 Foot Spools, Fiber is Cut-to-Order |
| 4FRIOMM6-BO | BLACK BREAKOUT STYLE INDOOR/OUTDOOR FIBER OPTIC CABLE 4 FIBER OM1 62.5/125 MULTIMODE REEL | - 4 Fiber 62.5 micron 62.5/125 Multimode OM1 Fiber  
- Dual Layer 900 micron tight buffer  
- Breakout Construction inner jackets with kevlar yarn  
- 4 jacketed fibers around a central member  
- UV Stabilized Polyvinyl Chloride jacket  
- NEC OFNP, CEC FT4, Sunlight Resistant, RoHS Compliant |
| 6FRIOMM6-D | BLACK DISTRIBUTION STYLE INDOOR/OUTDOOR FIBER OPTIC CABLE 6 FIBER OM1 62.5/125 MULTIMODE REEL | - 6 Fiber OM1 62.5/125 multimode  
- Dual layer tight buffer 900 micron  
- Central strength member and kevlar yarn  
- Distribution construction  
- UV stabilized PVC jacket  
- NEC OFNP, CEC FT6, Sunlight resistant, 3000 Foot Spools, Fiber is Cut-to-Order |

### MULTIMODE OM2: PLENUM AND NON-PLENUM

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| 2FPIOMM5-D | ORANGE FIBER 2F 50 OM2 OFNP DIST REEL | - 2 Fiber 50/125 micron OM2 Multimode Fiber  
- 900 Micron Dual Layer Tight Buffer  
- Aramid Yarn Strength Members (Kevlar)  
- Distribution Format  
- Indoor Only Plenum rated PVC Alloy Orange Jacket  
- 800m, 1600m Standard Spool Lengths, Fiber is cut-to-order  
- NEC OFNP, CEC FT6, RoHS Compliant |
| 4FRIOMM5-BO | BLACK BREAKOUT STYLE INDOOR/OUTDOOR FIBER OPTIC CABLE 4 FIBER OM2 50/125 MULTIMODE REEL | - 4 Fiber 50/125 Multimode OM2 Fibers  
- Dual Layer 900 micron tight buffer  
- Breakout Construction inner jackets with kevlar yarn  
- 4 jacketed fibers around a central member  
- UV Stabilized Polyvinyl Chloride jacket  
- Orange colored jacket indicates OM2  
- NEC OFNP, CEC FT4, Sunlight Resistant, RoHS Compliant  
- 3000 Foot Spools, Fiber is Cut-to-Order |

### MULTIMODE OM3: PLENUM AND NON-PLENUM

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| 4FPIOMM10-BO | TEAL BREAKOUT STYLE INDOOR/OUTDOOR PLENUM FIBER OPTIC CABLE 4 FIBER OM3 50/125 MULTIMODE REEL | - 4 Fiber OM3 50/125 laser optimized multimode  
- Dual layer tight buffer 900 micron  
- Central strength member  
- Breakout construction  
- UV stabilized PVC jacket  
- NEC OFNP, CEC FT6, Sunlight resistant, RoHS compliant  
- Fiber is cut to order, 3,000 foot spools standard |
MULTIMODE OM3: PLENUM AND NON-PLENUM

2FRIIMM10-BO  TEAL BREAKOUT STYLE INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE REEL

- 2 fiber OM3 50/125 laser optimized multimode
- Dual layer tight buffer 900 micron
- Central strength member
- Breakout construction
- Indoor only flame rated rated PVC jacket
- NEC OFNR, CEC FT4, RoHS compliant
- Fiber is cut to order, 3,000 foot spools standard

2FRIOMM10-BO  TEAL BREAKOUT STYLE INDOOR/OUTDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE REEL

- 2 fiber OM3 50/125 laser optimized multimode
- Dual layer tight buffer 900 micron
- Central strength member
- Breakout construction
- UV stabilized PVC jacket
- NEC OFNR, CEC FT4, Sunlight resistant, RoHS compliant
- Fiber is cut to order, 3,000 foot spools standard

4FRIIMM10-BO  TEAL BREAKOUT STYLE INDOOR FIBER OPTIC CABLE 4 FIBER OM3 50/125 MULTIMODE REEL

- 4 fiber OM3 50/125 laser optimized multimode
- Dual layer tight buffer 900 micron
- Central strength member
- Breakout construction
- UV stabilized PVC jacket
- NEC OFNR, CEC FT4, RoHS compliant
- Fiber is cut to order, 3,000 foot spools standard

4FRIOMM10-BO  TEAL BREAKOUT STYLE INDOOR/OUTDOOR FIBER OPTIC CABLE 4 FIBER OM3 50/125 MULTIMODE REEL

- 4 fiber OM3 50/125 laser optimized multimode
- Dual layer tight buffer 900 micron
- Central strength member
- Breakout construction
- UV stabilized PVC jacket
- NEC OFNR, CEC FT4, Sunlight resistant, RoHS compliant
- Fiber is cut to order, 3,000 foot spools standard

4FRIOMM10-D  TEAL DISTRIBUTION STYLE INDOOR/OUTDOOR FIBER OPTIC CABLE 4 FIBER OM3 50/125 MULTIMODE REEL

- 4 fiber OM3 50/125 laser optimized multimode
- Dual layer tight buffer 900 micron
- Central strength member
- Breakout construction
- UV stabilized PVC jacket
- NEC OFNR, CEC FT4, Sunlight resistant, RoHS compliant
- Fiber is cut to order, 3,000 foot spools standard

CUSTOM & PREMADE FIBER OPTICS SOLUTIONS

CUSTOM FIBER INSTALL CABLES | CUSTOM FIBER PATCH CORDS
DATA CENTER CONFIGURATIONS | LEMO® BROADCAST CABLES | STANDARD FIBER PATCH CORDS

Liberty’s team of experienced sales professionals and highly trained fiber technicians can design solutions that will work for every type of fiber optic installation. As a certified Fibertron™ and Corning Gold™ manufacturer, our custom fiber assemblies are unmatched in the AV industry for performance, reliability and value.
BULK FIBER CABLE: STANDARD TIGHT BUFFERED

SINGELEMODE: NON-PLENUM

**HDC3R** BLACK GEPCO BRAND THREE-CHANNEL PERMANENT-INSTALLATION HYBRID FIBER RISER RATED REEL

- Unique Hybrid Composite Construction
- Low-loss Single-mode Optical Fiber
- Three Groups of Fiber and Copper Elements
- Connects up to 3 SMPTE 304M Based HD Camera Systems
- Cost Effective
- UL Riser Rated

BULK FIBER CABLE: STRONGER, SAFER, FASTER (SSF®) FIBER

MULTIMODE OM3: PLENUM

**1FPINSM10-D** TEAL MICRO-DISTRIBUTION STYLE STRONGER, SAFER, FASTER (SSF) INDOOR FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE REEL

- Patented coating over the cladding
- 10,000 times the flex life of standard fiber cables
- 1 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- 250 Micron Soft Peel color coded coating
- Aramid Yarn (Kevlar) Strength Members
- Plenum rated PVC jacket 2.9mm diameter
- 3000 foot spools standard
- Fiber is cut-to-order for other lengths
- NEC OFNP, CEC FT6, RoHS Compliant

**2FPINSM10-BO** TEAL BREAKOUT STYLE STRONGER, SAFER, FASTER (SSF) INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE REEL

- Patented coating over the cladding
- 10,000 times the flex life of standard fiber cables
- 2 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- 250 Micron Soft Peel color coded coating
- Aramid Yarn (Kevlar) Strength Members
- Inner jackets approximately 2.0mm diameter
- 3000 foot spools standard
- Fiber is cut-to-order for other lengths
- NEC OFNP, CEC FT6, RoHS Compliant

**2FPINSM10-D** TEAL MICRO-DISTRIBUTION STYLE STRONGER, SAFER, FASTER (SSF) INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE REEL

- Patented coating over the cladding
- 10,000 times the flex life of standard fiber cables
- 2 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- 250 Micron Soft Peel color coded coating
- Aramid Yarn (Kevlar) Strength Members
- Inner jackets approximately 2.0mm diameter
- 3000 foot spools standard
- Fiber is cut-to-order for other lengths
- NEC OFNP, CEC FT6, RoHS Compliant

**2FPINSM10-Z** TEAL ZIPCORD STYLE STRONGER, SAFER, FASTER (SSF) INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE REEL

- Patented coating 10,000 the flex life of normal glass
- Zipcord style SPT fiber assembly format
- 2 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- 250 Micron Soft Peel color coded coating
- Aramid Yarn (Kevlar) Strength Members
- Inner jackets approximately 2.0mm leg diameter
- 3000 foot spools standard
- Fiber is cut-to-order for other lengths
- NEC OFNP, CEC FT6, RoHS Compliant

**4FPINSM10-BO** TEAL BREAKOUT STYLE STRONGER, SAFER, FASTER (SSF) INDOOR FIBER OPTIC CABLE 4 FIBER OM3 50/125 MULTIMODE REEL

- Patented coating over the cladding
- 10,000 times the flex life of standard fiber cables
- 4 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- 250 Micron Soft Peel color coded coating
- Aramid Yarn (Kevlar) Strength Members
- Inner jackets approximately 2.0mm diameter
- 3000 foot spools standard
- Fiber is cut-to-order for other lengths
- NEC OFNP, CEC FT6, RoHS Compliant

**4FPINSM10-D** TEAL MICRO-DISTRIBUTION STYLE STRONGER, SAFER, FASTER (SSF) INDOOR FIBER OPTIC CABLE 4 FIBER OM3 50/125 MULTIMODE REEL

- Patented coating over the cladding
- 10,000 times the flex life of standard fiber cables
- 4 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- 250 Micron Soft Peel color coded coating
- Aramid Yarn (Kevlar) Strength Members
- Inner jackets approximately 2.0mm leg diameter
- 3000 foot spools standard
- Fiber is cut-to-order for other lengths
- NEC OFNP, CEC FT6, RoHS Compliant
# BULK FIBER CABLE: STRONGER, SAFER, FASTER (SSF®) FIBER

## MULTIMODE OM3: PLENUM

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CORNING: OM1

95-000-41

CORNING UNICAM SC FIBER OPTIC CONNECTOR FOR OM1 62.5/125
- SC Plug Format
- 62.5/125 Multimode Fiber OM1
- Individual Bag with Multiple strain relief boots
- Fits both Breakout and Distribution style cable
- Specific for Corning Unicam PFC System

95-000-51

CORNING UNICAM ST® COMPATIBLE FIBER OPTIC CONNECTOR FOR OM1 62.5/125
- ST Plug Format
- 62.5/125 Multimode Fiber
- Individual Bag with Multiple strain relief boots
- Fits both Breakout and Distribution style cable
- Specific for Corning Unicam PFC System

95-000-99

CORNING UNICAM LC FIBER OPTIC CONNECTOR FOR OM1 62.5/125
- LC Plug Format
- 62.5/125 Multimode Fiber
- Individual Bag with Multiple strain relief boots
- Fits both Breakout and Distribution style cable
- Specific for Corning Unicam PFC System

CORNING: OM2/3/4

95-050-41

CORNING UNICAM SC FIBER OPTIC CONNECTOR FOR OM2 50/125
- SC Plug Format
- 50/125 Multimode Fiber OM2
- Individual Bag with Multiple strain relief boots
- Fits both Breakout and Distribution style cable
- Specific for Corning Unicam PFC System

95-050-41-X

CORNING UNICAM SC FIBER OPTIC CONNECTOR FOR OM3/4 50/125
- SC Plug Format
- 50/125 Laser Optimized Multimode OM3 / OM4
- Individual Bag with Multiple strain relief boots
- Fits both Breakout and Distribution style cable
- Specific for Corning Unicam PFC System

95-050-51-X

CORNING UNICAM ST® COMPATIBLE FIBER OPTIC CONNECTOR FOR OM3/4 50/125
- ST Plug Format
- 50/125 Laser Optimized Multimode OM3 / OM4
- Individual Bag with Multiple strain relief boots
- Fits both Breakout and Distribution style cable
- Specific for Corning Unicam PFC System

95-050-99-X

CORNING UNICAM LC FIBER OPTIC CONNECTOR FOR OM3/4 50/125
- LC Plug Format
- 50/125 Laser Optimized Multimode OM3 / OM4
- Individual Bag with Multiple strain relief boots
- Fits both Breakout and Distribution style cable
- Specific for Corning Unicam PFC System

NEED HELP?
We offer technical assistance on all of our products or applications!
Call us at 800-530-8998 or email orders@LibAV.com
FALCM10

LC PLUG FIELD ASSY OM3 10PK
- LC Plug Format
- 50/125 Multimode Fiber OM2/3/4
- Sold in multiples of 10 only
- Fits Breakout and Distribution style cable
- Ideal for Stronger, Safer, Faster (SSF) Fiber terminations

FASCM10

FIELD ASSEMBLY SC FIBER OPTIC CONNECTOR FOR OM3/4 MULTIMODE
- SC Plug Format
- 50/125 Multimode Fiber OM3 or OM4
- Sold in multiples of 10 only
- Fits Breakout and Distribution style cable
- Ideal for Stronger, Safer, Faster (SSF) Fiber terminations

ISK-LC-WH

KEYSTONE COMPATIBLE LC DUPLEX MULTIMODE FIBER COUPLER INSERTS
- LC Multimode fiber optic coupler in pass through format
- Duplex format, 2 connectors per insert
- Multimode OM1, OM2, or OM3 applications
- Keystone snap in insert format
- Non-recessed design
- Compatible with Leviton plates and panels

FOR ALL PRODUCTS AVAILABLE ONLINE!
www.LibAV.com
**PRE-MADE PATCH CABLES: STANDARD TIGHT BUFFERED**

## MULTIMODE OM1

### DMM6LCLC | Duplex Fiber Optic Patch cable OM1 Standard Multimode LC-LC

**Features and Benefits**
- OM1 62.5/125 Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to LC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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### DMM6LCSC | Duplex Fiber Optic Patch cable OM1 Standard Multimode LC-SC

**Features and Benefits**
- OM1 62.5/125 Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
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### DMM6LCST | Duplex Fiber Optic Patch cable OM1 Standard Multimode LC-ST

**Features and Benefits**
- OM1 62.5/125 Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
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## MULTIMODE OM1

### DMM6SCSC
Duplex Fiber Optic Patch cable OM1 Standard Multimode SC-SC

**Features and Benefits**
- OM1 62.5/125 Multimode Fiber
- Zipcord style plenum rated construction
- SC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
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### DMM6SCST
Duplex Fiber Optic Patch cable OM1 Standard Multimode SC-ST

**Features and Benefits**
- OM1 62.5/125 Multimode Fiber
- Zipcord style plenum rated construction
- SC duplex to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
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### DMM6STST
Duplex Fiber Optic Patch cable OM1 Standard Multimode ST-ST

**Features and Benefits**
- OM1 62.5/125 Multimode Fiber
- Zipcord style plenum rated construction
- 2 x ST to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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# Pre-Made Patch Cables: Standard Tight Buffered

## Multimode OM2

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### Features and Benefits
- OM2 50/125 Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to LC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

## Duplex Fiber Optic Patch Cable OM2 Standard Multimode LC-LC

### DMMSLCLC

### Features and Benefits
- OM2 50/125 Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to LC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

## Duplex Fiber Optic Patch Cable OM2 Standard Multimode LC-SC

### DMMSLCSC

### Features and Benefits
- OM2 50/125 Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

## Duplex Fiber Optic Patch Cable OM2 Standard Multimode LC-ST

### DMMSLCST

### Features and Benefits
- OM2 50/125 Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to 2 x ST Connectivity
1, 2, 3 meters standard lengths, other lengths available on request
Orange colored jacket designates Standard Multimode
NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard
MULTIMODE OM2

**DMM5SCSC** | Duplex Fiber Optic Patch cable OM2 Standard Multimode SC-SC

**Features and Benefits**
- OM2 50/125 Multimode Fiber
- Zipcord style plenum rated construction
- SC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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**DMM5SCST** | Duplex Fiber Optic Patch cable OM2 Standard Multimode SC-ST

**Features and Benefits**
- OM2 50/125 Multimode Fiber
- Zipcord style plenum rated construction
- SC duplex to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
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**DMM5STST** | Fiber Optic Patch cable OM2 Standard Multimode ST-ST

**Features and Benefits**
- OM2 50/125 Multimode Fiber
- Zipcord style plenum rated construction
- 2 x ST to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Orange colored jacket designates Standard Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000 Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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# MULTIMODE OM3

**DMM10LCLC** | Duplex Fiber Optic Patch cable OM1 Standard Multimode LC-LC

### Features and Benefits
- OM3 50/125 Laser Optimized Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to LC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Aqua colored jacket designates Laser Optimized Multimode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000/10G Ethernet Fiber Patching
- Crestron, AMX, Savant system support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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**DMM10LCSC** | Duplex Fiber Optic Patch cable OM3 Laser Optimized Multimode LC-SC

### Features and Benefits
- OM3 50/125 Laser Optimized Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Aqua colored jacket designates Laser Optimized Multimode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000/10G Ethernet Fiber Patching
- Crestron, AMX, Savant system support
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**DMM10LCST** | Duplex Fiber Optic Patch cable OM3 Laser Optimized Multimode LC-ST

### Features and Benefits
- OM3 50/125 Laser Optimized Multimode Fiber
- Zipcord style plenum rated construction
- LC duplex to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Aqua colored jacket designates Laser Optimized Multimode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000/10G Ethernet Fiber Patching
- Crestron, AMX, Savant system support
- Economical solution to field termination
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### MULTIMODE OM3

**DMM10SCSC** | Duplex Fiber Optic Patch cable OM3 Laser Optimized Multimode SC-SC

**Features and Benefits**
- OM3 50/125 Laser Optimized Multimode Fiber
- Zipcord style plenum rated construction
- SC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Aqua colored jacket designates Laser Optimized Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000/10G Ethernet Fiber Patching
- Crestron, AMX, Savant system support
- Economical solution to field termination
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**DMM10STSC** | Duplex Fiber Optic Patch cable OM3 Laser Optimized Multimode SC-ST

**Features and Benefits**
- OM3 50/125 Laser Optimized Multimode Fiber
- Zipcord style plenum rated construction
- SC duplex to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Aqua colored jacket designates Laser Optimized Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000/10G Ethernet Fiber Patching
- Crestron, AMX, Savant system support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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**DMM10STST** | Duplex Fiber Optic Patch cable OM3 Laser Optimized Multimode ST-ST

**Features and Benefits**
- OM3 50/125 Laser Optimized Multimode Fiber
- Zipcord style plenum rated construction
- 2 x ST to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Aqua colored jacket designates Laser Optimized Multimode
- NEC OFNP, CEC FT6, RoHS compliant

**Applications**
- 10/100/1000/10G Ethernet Fiber Patching
- Crestron, AMX, Savant system support
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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## Singlemode

### Features and Benefits
- **DSMLCLC-001M** 3.3’
- **DSMLCLC-002M** 6.6’
- **DSMLCLC-003M** 10’
- **DSMLCLC-005M** 16.5’
- **DSMLCLC-010M** 33’

- OS1 9/125 Single Mode Fiber
- Zipcord style plenum rated construction
- LC duplex to LC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Yellow colored jacket designates Single Mode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000/10G/40G/100G Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- TELCO, HD Security, High Bandwidth Signals
- Economical solution to field termination
- Always patch out to equipment! It is the standard

### DSMLCSC

### Features and Benefits
- **DSMLCSC-001M** 3.3’
- **DSMLCSC-002M** 6.6’
- **DSMLCSC-003M** 10’
- **DSMLCSC-005M** 16.5’
- **DSMLCSC-010M** 33’

- OS1 9/125 Single Mode Fiber
- Zipcord style plenum rated construction
- LC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Yellow colored jacket designates Single Mode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000/10G/40G/100G Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- TELCO, HD Security, High Bandwidth Signals
- Economical solution to field termination
- Always patch out to equipment! It is the standard

### DSMLCST

### Features and Benefits
- **DSMLCST-001M** 3.3’
- **DSMLCST-002M** 6.6’
- **DSMLCST-003M** 10’
- **DSMLCST-005M** 16.5’
- **DSMLCST-010M** 33’

- OS1 9/125 Single Mode Fiber
- Zipcord style plenum rated construction
- LC duplex to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Yellow colored jacket designates Single Mode
- NEC OFNP, CEC FT6, RoHS compliant

### Applications
- 10/100/1000/10G/40G/100G Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- TELCO, HD Security, High Bandwidth Signals
- Economical solution to field termination
- Always patch out to equipment! It is the standard
## PRE-MADE PATCH CABLES: STANDARD TIGHT BUFFERED

### SINGLEMODE

**DSMSCSC** | Duplex Fiber Optic Patch cable OS1 Single Mode SC-SC

#### Features and Benefits
- OS1 9/125 Single Mode Fiber
- Zipcord style plenum rated construction
- SC duplex to SC duplex Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Yellow colored jacket designates Single Mode
- NEC OFNP, CEC FT6, RoHS compliant

#### Applications
- 10/100/1000/10G/40G/100G Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
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</table>

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**DSMSCST** | Duplex Fiber Optic Patch cable OS1 Single Mode SC-ST

#### Features and Benefits
- OS1 9/125 Single Mode Fiber
- Zipcord style plenum rated construction
- SC duplex to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Yellow colored jacket designates Single Mode
- NEC OFNP, CEC FT6, RoHS compliant

#### Applications
- 10/100/1000/10G/40G/100G Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- TELCO, HD Security, High Bandwidth Signals
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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**DSMSTST** | Duplex Fiber Optic Patch cable OS1 Single Mode ST-ST

#### Features and Benefits
- OS1 9/125 Single Mode Fiber
- Zipcord style plenum rated construction
- 2 x ST to 2 x ST Connectivity
- 1, 2, 3 meters standard lengths, other lengths available on request
- Yellow colored jacket designates Single Mode
- NEC OFNP, CEC FT6, RoHS compliant

#### Applications
- 10/100/1000/10G/40G/100G Ethernet Fiber Patching
- A/V, Data, Control, Phone Support
- TELCO, HD Security, High Bandwidth Signals
- Economical solution to field termination
- Always patch out to equipment! It is the standard

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</table>
### MULTIMODE OM3

#### DOM3NLCLC

**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
- 2 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- Standard lengths 1, 2, 3, 5, and 10 meters
- NEC OFNR, CEC FT4, RoHS Compliant

**Applications**
- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G Ethernet
- Digital Multimedia patching and interconnection
- Crestron, AMX, and Savant standard fiber specification

#### PART #

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#### DOM3NLCSC

**Features and Benefits**
- Duplex LC to Duplex SC FPC/SPC Format Connectors
- Stronger, Safer, Faster (SSF) fiber bulk cable
- 10,000 times the flex life of standard fiber cables
- 2 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- Standard lengths 1, 2, 3, 5, and 10 meters
- NEC OFNR, CEC FT4, RoHS Compliant

**Applications**
- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G Ethernet
- Digital Multimedia patching and interconnection
- Crestron, AMX, and Savant standard fiber specification

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</tbody>
</table>

#### DOM3NSCSC

**Features and Benefits**
- Duplex SC to Duplex SC FPC/SPC Format Connectors
- Stronger, Safer, Faster (SSF) fiber bulk cable
- 10,000 times the flex life of standard fiber cables
- 2 Fiber 50/125 Laser Optimized Multimode OM3 Fiber
- Standard lengths 1, 2, 3, 5, and 10 meters
- NEC OFNR, CEC FT4, RoHS Compliant

**Applications**
- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G Ethernet
- Digital Multimedia patching and interconnection
- Crestron, AMX, and Savant standard fiber specification

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</table>
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.
FIBER ENCLOSURES

WALL MOUNT

SPH-01P

CORNING WALL MOUNT SINGLE PANEL FIBER OPTIC ENCLOSURE
• Wall Mount Fiber Enclosure
• 1 Snap in Panel accommodation, up to 24 Fibers with LC panels
• Black

WCH-02P

CORNING WALL MOUNT 2 PANEL FIBER OPTIC ENCLOSURE
• Wall Mount Fiber Enclosure
• 2 Snap in Panel accommodation, up to 48 Fibers with LC panels
• Black

WCH-04P

CORNING WALL MOUNT 4 PANEL FIBER OPTIC ENCLOSURE
• Wall Mount Fiber Enclosure
• 4 Snap in Panel accommodation, up to 96 Fibers with LC panels
• Black

RACK MOUNT

CCH-01U

CORNING RACK MOUNT 1RU 2 PANEL FIBER OPTIC ENCLOSURE
• 1RU in height, standard 19” rack mount
• 2 Snap in Panel accommodation, up to 48 Fibers with LC panels
• Black

CCH-04U

CORNING RACK MOUNT 4RU 12 PANEL FIBER OPTIC ENCLOSURE
• Rack mount 4RU high fiber enclosure
• Holds twelve snap in CCH-CP* patch panels
• Support from 1 to 288 fibers (LC High Density)
• Black metal construction w/platinum color interior
• Slide out tray and clear see-through lid

FIBER SNAP IN PATCH PANELS

MULTIMODE OM1

CCH-CP12-91

CORNING SNAP IN FIBER OPTIC PATCH PANEL OM1 62.5/125 MULTIMODE 6 X SC DUPLEX
• 6 Duplex SC Couplers mounted in a single snap in plate
• Color Coded for OM1 62.5/125 Multimode

CCH-CP12-A8

CORNING SNAP IN FIBER OPTIC PATCH PANEL OM1 62.5/125 MULTIMODE 6 X LC DUPLEX
• 6 Duplex LC Couplers mounted in a single snap in plate
• Color Coded for OM1 62.5/125 Multimode

CCH-CP06-56

CORNING SNAP IN FIBER OPTIC PATCH PANEL OM1 62.5/125 MULTIMODE 6 X SC
• 6 Simplex SC Couplers mounted in a single snap in plate
• Color Coded for OM1 62.5/125 Multimode

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# FIBER SNAP IN PATCH PANELS

## MULTIMODE OM1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
</table>
| CCH-CP12-15T | CORNING SNAP IN FIBER OPTIC PATCH PANEL OM1 62.5/125 MULTIMODE 12 X ST | 12 ST Couplers mounted in a single snap in plate  
Color Coded for OM1 62.5/125 Multimode |
| CCH-CP12-56 | CORNING SNAP IN FIBER OPTIC PATCH PANEL OM1 62.5/125 MULTIMODE 12 X SC | 12 Simplex SC Couplers mounted in a single snap in plate  
Color Coded for OM1 62.5/125 Multimode |

## MULTIMODE OM2 R5J

<table>
<thead>
<tr>
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</tr>
</thead>
</table>
| CCH-CP12-G7 | CORNING SNAP IN FIBER OPTIC PATCH PANEL OM2 50/125 MULTIMODE 6 X SC DUPLEX | 6 Duplex SC Couplers mounted in a single snap in plate  
Color Coded for OM2 50/125 Multimode |
| CCH-CP12-E4 | CORNING SNAP IN FIBER OPTIC PATCH PANEL OM3 50/125 LASER OPTIMIZED MULTIMODE 6 X LC DUPLEX | 6 Duplex LC Couplers mounted in a single snap in plate  
Color Coded for OM3 50/125 Laser Optimized Multimode |
| CCH-CP12-E7 | CORNING SNAP IN FIBER OPTIC PATCH PANEL OM3/4 50/125 LASER OPTIMIZED MULTIMODE 6 X SC DUPLEX | 6 Duplex SC Couplers mounted in a single snap in plate  
Color Coded for OM3/4 50/125 Laser Optimized Multimode |

## SINGLEMODE

<table>
<thead>
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</table>
| CCH-CP06-19T | CORNING SNAP IN FIBER OPTIC PATCH PANEL OS1 SINGLE MODE 6 X ST | 6 ST Couplers mounted in a single snap in plate  
Color Coded for OS1 9/125 Single Mode |
| CCH-CP06-3C | CORNING SNAP IN FIBER OPTIC PATCH PANEL OS1 SINGLE MODE 6 X SC SIMPLEX | 6 Simplex SC Couplers mounted in a single snap in plate  
Color Coded for OS1 9/125 Single Mode |
| CCH-CP12-59 | CORNING SNAP IN FIBER OPTIC PATCH PANEL OS1 SINGLE MODE 6 X SC DUPLEX | 6 Duplex SC Couplers mounted in a single snap in plate  
Color Coded for OS1 9/125 Single Mode |

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**NEED HELP?**  
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## NMC1012R 10/100/1000BASETX TO 1000BASEFX MANAGED MEDIA CONVERTER (850, MMF, SC, 220/550 M)
- Transceiver box format with Duplex SC Fiber Connectivity
- Multimode OM1, OM2, OM3, or OM4 Fiber
- Compliant with IEEE 802.3ab 1000BaseT
- Compliant with IEEE802.3z 1000BaseSX/LX Gigabit Ethernet
- Provides 19” system chassis for up to 16 converters
- OMM Fiber to 220m, OM2-4 Fiber to 550m
- Supports Full Duplex Auto negotiation mode for Fiber port
- Front panel diagnostic LED indications
- Dip Switchs: Fiber (auto/manual), LLR (Enable/Disable)

## NMC1012RSM 10/100/1000BASETX TO 1000BASEFX MANAGED MEDIA CONVERTER (1310, SMF, SC, 10KM)
- Transceiver box format with Duplex SC Fiber Connectivity
- Single Mode Fiber
- Single Mode fiber to 20Km
- Supports Full Duplex Auto negotiation mode for Fiber port
- Front panel diagnostic LED indications
- Dip Switchs: Fiber (auto/manual), LLR (Enable/Disable)
- Power Over Ethernet (PoE) Powered

## NMC220PR 10/100/1000BASETX TO 1000BASEFX POE PD MEDIA CONVERTER (850, MMF, SC, 220/550 M)
- Transceiver box format with Duplex SC Fiber Connectivity
- Multimode OM1, OM2, OM3, or OM4 Fiber
- Compliant with IEEE 802.3ab 1000BaseT
- Compliant with IEEE802.3z 1000BaseSX/LX Gigabit Ethernet
- OM1 Fiber to 220m, OM2-4 Fiber to 550m
- Provides 19” system chassis for up to 16 converters
- Dip Switchs: Fiber (auto/manual), LLR (Enable/Disable)
- Front panel diagnostic LED indications
- Differential LVPECL inputs and CML outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825-1

## NMC220PS 10/100/1000BASETX TO 1000BASEFX POE PSE MEDIA CONVERTER (850, MMF, SC, 220/550 M)
- Transceiver box format with Duplex SC Fiber Connectivity
- Single Mode Fiber
- Single Mode Fiber to 20Km
- Supports Full Duplex Auto negotiation mode for Fiber port
- Front panel diagnostic LED indications
- Dip Switchs: Fiber (auto/manual), LLR (Enable/Disable)
- Power Over Ethernet (PoE) Powered

## N10GMM 1-P 10GBASE-SX MINI-GBIC MODULE (MM, SFP+, 850NM)
- SFP+ format with Duplex LC Fiber Connectivity
- Multimode OM3, or OM4 Fiber
- Compliant with IEEE802.3ae 10G BASE SW/SR
- Compliant with 10G,8.5G,4.25G,2.125G,1.0625G Fiber CH
- Compliant with IEEE802.3z Gigabit Ethernet standard
- Compliant with SFF8472 diagnostic monitoring
- Differential LVPECL inputs and outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Class 1 laser product complies with EN 60825-1

## N10GSM 1-P 10GBASE-SX MINI-GBIC MODULE (SM, SFP+, 1310NM)
- SFP+ format with Duplex LC Fiber Connectivity
- Single Mode Fiber
- Compliant with IEEE802.3ae 10G BASE SW/SR
- Compliant with 10G,8.5G,4.25G,2.125G,1.0625G Fiber CH
- Compliant with IEEE802.3z Gigabit Ethernet standard
- Compliant with SFF8472 diagnostic monitoring
- Differential LVPECL inputs and outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825-1

## NVMSX550U 1-P 1000BASE-SX MINI-GBIC MODULE (MM, SFP)
- Industry standard small form pluggable (SFP) package
- Multimode fiber required OM1,OM2,OM3 or OM4
- Duplex LC receptacle
- Differential LVPECL inputs and outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser compliant to EN 60825-1
- Compliant 100-MS-S-I/100-M6-SN-I, 802.32 Gigabit Ethernet

## NVSM550U 1-P 1000BASE-SX MINI-GBIC MODULE (MM, SFP)
- Digital Diagnostics are Internal Calibrated
- Operation Temperature: 0–70°C
- 850nm oxide VCSEL, Duplex LC receptacles
- 550m link distance(indicative only)
- Hot pluggable
- Metal enclosure, low EMI
- Single 3.3V power supply
- Low Power Dissipation
FIBER ELECTRONICS: MULTI-FORMAT

MFS-DVI-T-M-SC-VO | Multiformat (DVI/VGA/SV/CV) Scaler without Audio, 1-Fiber Transmitter

Features and Benefits
- Standalone Box Format
- Resolutions up to WUXGA 1920X1200@60Hz
- Inputs: VGA, DVI, NTSC/PAL BNC, S-Video 6-Pin MiniDIN
- Consolidates different video formats into 1 DVI over fiber
- Auto-Senses input
- Video only solution

Applications
- Permit many video inputs into a Digital Video application
- Presentation solutions, high use with many user apps
- Commercial Video, Medical, Digital Signage

LEVERAGE OUR SERVICES AS AN EXTENSION OF YOUR WORKFORCE!

THE LIBERTY EDGE

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**ACTIVE OPTICAL EXTENSION**

### DFO

**Features and Benefits**
- Plenum rated cable for all installations
- Ultra-Small diameter cable
- Detachable HDMI TX and RX units from main body
- USB Power A plug on both TX and RX units
- TX end only needs USB power if the LED does not illuminate
- Lengths: 35, 40, 50, 60, 80, 100, 160, 200, 500, 1000 ft
- HDMI High Speed, 10.2Gbps, 4Kx2K, 3D, all audio formats

**Applications**
- HDMI Projectors, Displays in commercial and residential
- Maximum bandwidth and distance needs for HDMI installs

### DL-AOCHP

**Features and Benefits**
- Plenum rated cable for all installations
- Ultra-Small diameter cable
- No additional power required
- Hybrid Copper/Fiber supports Hot Plug Detect
- Lengths: 10, 15, 20, 23, 30, 40, 50, 60, 70, 80, 90, and 100m
- HDMI High Speed, 6.75Gbps, 1080P, 3D, all audio formats
- Does not support Ethernet or Audio Return

**Applications**
- HDMI Projectors, Displays in commercial and residential
- Long distance cabling used with switches and DA's
- Digital Signage applications

### DL-HFC

**Features and Benefits**
- Plenum rated cable for all installations
- Ultra-Small diameter cable
- Detachable HDMI TX and 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, and 75 feet
- HDMI High Speed, 10.2 Gbps 4K@30Hz, 3D, all audio

**Applications**
- HDMI Projectors, Displays in commercial and residential
- Maximum bandwidth and distance needs for HDMI installs
FOG  |  Celerity Technologies Fiber Optic Gateway (FOG) umbilical

**Features and Benefits**
- 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, 1000 ft
- HDMI 2.0 19.2 Gbps, supports 4K@60Hz

**Applications**
- HDMI Video and Audio for projectors and Displays
- Maximum bandwidth and distance for HDMI installs

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<td>FOG-1000P</td>
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FOG-RXCB  |  Celerity Fiber Optic Gateway Receive box

**Features and Benefits**
- FOG Control Box 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

**Applications**
- HDMI and control for projectors, Displays, and systems
- Maximum bandwidth and distance for HDMI installs

FOG-TXCB  |  Celerity Fiber Optic Gateway Transmit box

**Features and Benefits**
- FOG Control Box 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

**Applications**
- HDMI and control for projectors, Displays, and systems
- Maximum bandwidth and distance for HDMI installs
FIBER ELECTRONICS: HDMI OVER FIBER

ACTIVE OPTICAL EXTENSION

FOG-TXWP | Celerity Fiber Optic Gateway Transmit Wall Plate

Features and Benefits
• 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

Applications
• HDMI and control for projectors, Displays, and systems
• Maximum bandwidth and distance for HDMI installs

DEVICE TRANSPORT

DL-FO-HDLC | HDMI Fiber Optic Extender Set

Features and Benefits
• Extension up to 1000 ft (300m) over SM fiber
• Bandwidth up to 10.2 Gbps
• HDMI 1.4, HDCP 1.4 compliant
• LC connectors
• Compact design

Applications
• Extremely long HDMI extension in any environment
• EM and RF interference resistant

FOG-RXWP | Celerity Fiber Optic Gateway Receive Wall Plate

Features and Benefits
• 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

Applications
• HDMI and control for projectors, Displays, and systems
• Maximum bandwidth and distance for HDMI installs
VIDEO SPECIFICATIONS
Resolution: Up to 1080p@60Hz or 1920x1200@60Hz
Connector: HDMI Female Plug
Protocol: DDC/EDID/HDCP Capable

AUDIO
Channel Capacity: 2
Operating Mode: Unbalanced (Stereo Audio), Bi-directional
Input/Output Impedance: 10k/50 Ohms (Stereo Audio)
Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio)
Magnitude Freq. Response: 20Hz to 20kHz @ -3dB
THD+N: >70 @ 1kHz (Stereo Audio)
Connector: 3.5mm Stereo Jack

SERIAL DATA
Channel Capacity: 2
Signal Format: RS-232
Data Rate: Up to 57.6kbaud
Connector: Terminal Block

PHYSICAL
Dimensions:
- Standalone: 4.17"(W) x 4.08"(D) x 1.14"(H)
- Wall-plate: 1.69"(W) x 2.69"(D) x 2.80"(H)
Power Consumption: +12VDC @ 1.5 Amps (Max.)
Operating Temperature: 0 to +50°C
Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
LBO-HDMI-AD-T-M-SC, Fiber Transmitter, Multimode, 1-Fiber
LBO-HDMI-AD-R-M-SC, Fiber Receiver, Multimode, 1-Fiber
Add -WP for Wallplate configuration
Add -CH for LBO-CH Chassis mounting kit
Add -UPS for International Universal Power Supply

LBO-HDMI-AD
Link Bridge™ Fiber Optic HDMI Transmission Systems

FEATURES
- Extend HDMI Signals up to 400 meters Over Multimode Fiber
- Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video & Audio Provides Zero Loss of Quality
- Supports True DDC/EDID/HDCP Transmission Over Fiber
- Audio + Video + Data, Over 1 Multimode Fiber
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with SDI, VGA, and S-video Transmitters

OPTICAL
- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC

DIMENSIONS

DOING MORE WITH ONE FIBER

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FIBER ELECTRONICS: HDMI OVER FIBER

DEVELOPMENT

LBO-HDMI-EAD

Link Bridge™ Fiber Optic HDMI Transmission Systems

DOING MORE WITH ONE FIBER

VIDEO SPECIFICATIONS

Resolution: Up to 4K2K (UHD)
Connector: HDMI Female Plug
Protocol: DDC/EDID/HDCP Capable

AUDIO

Channel Capacity: L/R Analog/1 SPDIF
Operating Mode: Unbalanced (Stereo Audio), Digital Audio
Input Impedance: 10KΩ (Stereo Audio) / 75Ω SPDIF
Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio) / 1Vpp SPDIF
Magnitude Freq. Response: 20Hz to 20KHz @ -3dB / 44.1K to 48KHz SPDIF
THD+N: >70 @ 1KHz (Stereo Audio)
Connector: 3.5mm Stereo Jack

SERIAL DATA

Channel Capacity: 2
Signal Format: RS-232 & IR (Infrared)
Data Rate: Up to 57.6kbaud
Connector: Terminal Block

PHYSICAL

Dimensions
Standalone: 4.17"(W) x 4.1"(D) x 1.1"(H)
Wall-plate: 1.75"(W) x 2.70"(D) x 2.81"(H)
Power Consumption: +12VDC @ 1.5 Amps (Max.)
Operating Temperature: 0 to +50°C
Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION

LBO-HDMI-EAD-T-M-SC, Video/Audio+Data Fiber Transmitter, Multimode, 1-Fiber
LBO-HDMI-EAD-T-M-SC, Video/Audio Fiber Transmitter, Multimode, 1-Fiber
Add -WP for Wallplate configuration
Add -CH for LBO-CH Chassis mounting kit
Add -UPS for International Universal Power Supply

FEATURES

Extend DVI Signals & embedded Audio up to 300 meters Over CAT 5e/6
4K2K & Full HDTV Video Resolutions of 720p/1080i/1080p@60 Hz
Fully Uncompressed Video with embedded Audio Provides Zero Loss of Quality
Supports True DDC/EDID/HDCP Transmission Over Fiber Audio/Video+Data, Over 1 Multimode Fiber
Extend DVI Signals up to 300 meters Over Multimode Fiber
Built-in Signal Conversion When Used with VGA Transmitters/ Receivers

OPTICAL

Fiber Type: Multimode
Number of Fibers: 1
Connector: SC

DIMENSIONS

Application Diagram

Transmitter
Multimode SC Fiber
(Up to 300m)
Receiver
HDMI/AUDIO
RS-232
HDMI
 AUDIO
 RS-232
Transmitter                  Receiver
Multimode SC Fiber
(Up to 300m)

Link Bridge™ Fiber Optic HDMI Transmission Systems

Wall-Plate (Tx) Stand-Alone (Tx)

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VIDEO SPECIFICATIONS
Resolution: Up to 1080p@60Hz or 1920x1200@60Hz
Connector: DVI Female Plug
Protocol: DDC/EDID/HDCP Capable

PHYSICAL
Dimensions: 0.66” x 1.54” x 3.05”
Power Consumption: +5VDC @ 1.0A
LED Indicator: Power/Link
Operating Temperature: 0 to +50°C
Humidity: 0 to 95% RH, Non-Condensing

OPTICAL
Fiber Type: Multimode
Number of Fibers: 1
Connector: SC

ORDERING INFORMATION
LBO-HDMI-T-M-SC, Fiber Transmitter, Multimode, 1-Fiber
LBO-HDMI-R-M-SC, Fiber Receiver, Multimode, 1-Fiber
Add -UPS for International Universal Power Supply

FEATURES
Extend HDMI Signals up to 400 meters Over Multimode Fiber
Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
Fully Uncompressed Video & Audio Provides Zero Loss of Quality
Supports True DDC/EDID/HDCP Transmission Over Fiber
Video Over 1 Multimode Fiber
Compatible with our LBO Series Products
Built-in Signal Conversion When Used with SDI, VGA, and S-video Transmitters

DIMENSIONS

Application Diagram

Transmitter    Multimode SC Fiber  (Up to 400m)  Receiver

HDMI  Link Bridge™ Fiber Optic HDMI Transmission Systems

LBO-HDMI

Module (Tx & Rx)

FIBER ELECTRONICS: HDMI OVER FIBER
FIBER ELECTRONICS: HDMI OVER FIBER

DEVICE TRANSPORT

LBO-HDMI-T/R-4K6

Link Bridge™ Fiber Optic HDMI 2.0 Transmission Systems

VIDEO SPECIFICATIONS

- Resolution: Up to 4K @ 60Hz, 4:4:4
- Connector: HDMI Male
- Protocol: DDC/EDID/HDCP Capable

PHYSICAL

- Dimensions: 0.46” x 1.19” x 3.47”
- Power Consumption: +5VDC @ 1.0A
- LED Indicator: Power/Link
- Operating Temperature: 0 to +40°C
- Humidity: 0 to 95% RH, Non-Condensing

OPTICAL

- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC

ORDERING INFORMATION

- LBO-HDMI-T-4K6-M-SC, Fiber Transmitter, Multimode, 1-Fiber
- LBO-HDMI-R-4K6-M-SC, Fiber Receiver, Multimode, 1-Fiber
  Add -UPS for International Universal Power Supply

FEATURES

- Extend HDMI 2.0 Signals up to 300 meters Over Multimode Fiber
- Video Resolutions up to 4K @ 60Hz, 4:4:4
- Fully Uncompressed Video & Audio Provides Zero Loss of Quality
- Supports True DDC/EDID/HDCP Transmission Over Fiber
- Video Over 1 Multimode Fiber

DIMENSIONS

- Cable Length: 11 inches
- Module (Tx & Rx)

DOING MORE WITH ONE CABLE

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FIBER ELECTRONICS: HDMI OVER FIBER

DEVICE TRANSPORT

VIDEO OUTPUT
- Signal Format: HDMI
- Graphic Resolution: Up to 1920 x 1200, 60 Hz
- Frequency Bandwidth: 1.65Gbps

AUDIO OUTPUT
- Signal Format: L/R Analog
- Audio Output Connector: 3.5mm Stereo

OPTICAL TRANSMISSION
- Fiber Type: Multimode
- Number of fibers: 1
- Connector/Distance: SC/ 400m

PHYSICAL
- Dimension: 1.12” x 8.36” x 5.89”
- Power Consumption: +12VDC @ 1.5 Amps (Max.)
- Operating Temperature: 0 to +50°C
- Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
- LB-HDMI/DH-SCL, HDMI Video Scaler
- LBO-HDMI-R-M-SCL, Auto-Scaling Optical Receiver, Single Multimode, HDMI
  Add -CH for LB-CH chassis mount, Add -UPS for International Universal Power Supply

DIMENSIONS

FEATURES
- Supports Input/Output Resolution up to 1920 x 1200 @ 60Hz
- High performance video scaler with OSD Menu Control
- Supports HDMI w/ embedded audio or de-embedded analog audio output
- Compatible with LB-CH chassis rack mount system
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB level, and scan size
- Auto-EDID support, Automatically detect the factory setting of the connected display
- Supports 50/60Hz frame rate conversion

SUPPORTED RESOLUTIONS

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<th>Resolution</th>
<th>Type</th>
<th>Vertical Refresh Rate (Hz)</th>
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DOING MORE WITH ONE FIBER
FIBER ELECTRONICS: HDMI OVER FIBER

DEVICE TRANSPORT

LBO-H/O-EAD-R-ICP
Link Bridge™ Optical/HDMI Receiver with Inline Control Processor

OVERALL
- A selectable optical or HDMI receiver with multiple control I/O ports
- Provides in-line control I/O paths

RECEIVER
- Receive HDMI, audio, and RS-232 up to 400 meters over 1 multimode fiber
- Supports video resolutions up to 1080p 60Hz and 1920 x 1200 @ 60Hz, as well as 4K@30Hz
- Supports HDMI w/embedded audio extraction
- EDID pass-through support, automatically detect the factory setting of the connected display

CONTROL
- Control I/O ports contain:
  - two (2) RS-232
  - two (2) Relay
  - two (2) Digital I/O
  - one (1) IR
  - one (1) Ethernet
- Control and monitor AV devices using a standard Ethernet network (Smart phone or PC) or RS-232 (keypad)
- Front panel port status indicators
- User friendly customizable control configurations via built-in web server

DOING MORE WITH ONE CABLE
FIBER ELECTRONICS: HDMI & VGA OVER FIBER

DEVEICE TRANSPORT

VIDEO SPECIFICATIONS
- Resolution: 4K2K or 1080p@60Hz or 1920x1200@60Hz
- Connectors: HDMI Female Plug/HD-15 VGA
- Protocol: DDC/EDID/HDCP Capable

AUDIO
- Channel Capacity: 1 L/R Analog/1 SPDIF
- Operating Mode: Unbalanced (Stereo Audio), Digital Audio
- Input Impedance: 10k (Stereo Audio) / 75ohm SPDIF
- Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio) / 1Vpp SPDIF
- Magnitude Freq. Response: 20Hz to 20kHz @ -3dB / 44.1K to 48K Hz SPDIF
- THD+N: >70 @ 1kHz (Stereo Audio)
- Connector: 3.5mm Stereo Jack

SERIAL DATA*
- Channel Capacity: 2
- Format: RS-232/IR
- Data Rate: Up to 57.6kbaud
- Connector: Terminal Block

PHYSICAL
- Wall-plate: 3.50”(W) x 2.68”(D) x 2.81”(H)
- Stand-alone: 8.36”(W) x 4.23”(D) x 1.12”(H)
- Power Consumption: +12VDC @ 1.5 Amps (Max.)
- Operating Temperature: 0 to +50°C
- Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
- LBO-H/V-EAD-T-M-SC: Fiber Transmitter, Multimode, 1-Fiber
- LBO-H/V-EAD-WP: Wall-Plate Fiber Transmitter, Multimode, 1-Fiber

LBO-H/V-EAD

Link Bridge™ Fiber Optic HDMI/VGA Transmission Systems

FEATURES
- Extend HDMI/VGA Signals up to 400 meters Over Multimode Fiber
- Ultra HD (4K2K) & HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video with embedded Audio Provides Zero Loss of Quality
- Selectable manual or auto-switching between VGA and HDMI inputs
- Video/Audio + Data over 1 Cable with True DDC/EDID/HDCP Transmission
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with HDMI or DVI Receivers

OPTICAL
- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC

DIMENSIONS

.Level Bridge™ Fiber Optic HDMI/VGA Transmission Systems

Application Diagram

HDMI/VGA AUDIO

Transmitter

Multimode SC Fiber
(Up to 400m)

Receiver

HDMI/VGA AUDIO

LBO-H/V-EAD

HDMI/VGA AUDIO

Link Bridge™ Fiber Optic HDMI/VGA Transmission Systems

Stand-Alone (Tx)

Wall-Plate (Tx)

DOING MORE WITH ONE CABLE

LBO-H/V-EAD-T-M-SC: Fiber Transmitter, Multimode, 1-Fiber
LBO-H/V-EAD-WP: Wall-Plate Fiber Transmitter, Multimode, 1-Fiber

Add -UPS for International Universal Power Supply
### FIBER ELECTRONICS: DVI OVER FIBER

**ACTIVE OPTICAL EXTENSION**

**DFO-DVI**  |  Celerity Detachable Fiber Optic Plenum DVI Single Link interconnection cables

**Features and Benefits**
- Plenum rated cable for all installations
- Ultra-Small diameter cable
- Detachable DVI TX and RX units from main body
- USB Power A plug on both TX and RX units
- TX end only needs USB power if the LED does not light up
- Lengths: 35', 40', 50', 60', 80', 100', 160', 200', 500', 1000'
- DVI Single Link Video with HDCP support

**Applications**
- DVI Video and Audio for projectors and Displays
- Maximum bandwidth and distance for DVI installs

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<th>Description</th>
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<td>DFO-DVI-1000P</td>
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### FIBER ELECTRONICS: DISPLAY PORT OVER FIBER

**ACTIVE OPTICAL EXTENSION**

**DFO-DP**  |  Celerity Detachable Fiber Optic Plenum DisplayPort interconnection cables

**Features and Benefits**
- Plenum rated cable for all installations
- Ultra-Small diameter cable
- Detachable DisplayPort TX and RX units from main body
- USB Power A plug on both TX and RX units
- TX end only needs USB power if the LED does not light up
- Lengths: 40', 60', 80', 100', 160', 200', 500', 1000'
- DisplayPort High Bit Rate with Audio and HDCP support

**Applications**
- DisplayPort Video and Audio for projectors and Displays
- Maximum bandwidth and distance for DisplayPort installs

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<td>DFO-DP-80P</td>
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**FIBER ELECTRONICS: HDMI & DISPLAYPORT OVER FIBER**

**DEVICE TRANSPORT**

![Diagram of Fiber Electronics](image)

**LBO-H/DP-EAD-T**

*Link Bridge™ Fiber Optic HDMI/Display Port Transmission Systems*

**FEATURES**

- Switch and extend HDMI or Display Port (DP++) signals up to 400 meters over multimode fiber
- HDTV video resolutions up to 720p/1080i/1080p@60Hz or 1920x1200@60Hz, as well as Ultra HD (4K2K@30Hz)
- Fully uncompressed video with embedded audio provides zero loss of quality
- Selectable manual or auto-switching between display port (DP++) and HDMI inputs
- Video/Audio+Data over 1 fiber with true DDC/EDID/HDCP transmission
- Compatible with our LBO Series products
- Built-in signal conversion when used with HDMI or DVI receivers

**DOING MORE WITH ONE CABLE**

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FIBER ELECTRONICS: DVI OVER FIBER

DEVICE TRANSPORT

VIDEO SPECIFICATIONS
- Resolution: Up to 1080p@60Hz or 1920x1200@60Hz
- Connector: DVI Female Plug
- Protocol: DDC/EDID/HDCP Capable

AUDIO
- Channel Capacity: 2
- Operating Mode: Unbalanced (Stereo Audio), Bi-directional
- Input/Output Impedance: 10k/50 Ohms (Stereo Audio)
- Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio)
- Magnitude Freq. Response: 20Hz to 20kHz @ -3dB
- THD+N: >70 @ 1kHz (Stereo Audio)
- Connector: 3.5mm Stereo Jack

SERIAL DATA
- Channel Capacity: 2
- Signal Format: RS-232
- Data Rate: Up to 57.6kbaud
- Connector: Terminal Block

PHYSICAL
- Dimensions:
  - Standalone: 4.17”(W) x 4.08”(D) x 1.14”(H)
  - Wall-plate: 1.69”(W) x 2.69”(D) x 2.80”(H)
- Power Consumption: +12VDC @ 1.5 Amps (Max.)
- Operating Temperature: 0 to +50°C
- Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
- LBO-DVI-AD-T-M-SC, Fiber Transmitter, Multimode, 1-Fiber
- LBO-DVI-AD-R-M-SC, Fiber Receiver, Multimode, 1-Fiber

FEATURES
- Extend DVI Signals up to 400 meters Over Multimode Fiber
- Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video & Audio Provides Zero Loss of Quality
- Supports True DDC/EDID/HDCP Transmission Over Fiber
- Audio + Video + Data, Over 1 Multimode Fiber
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with SDI, VGA, and S-video Transmitters

OPTICAL
- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC

DIMENSIONS
FIBER ELECTRONICS: DVI OVER FIBER

DEVICE TRANSPORT

VIDEO SPECIFICATIONS
Resolution: Up to 4K2K (UHD) & HDTV up to 1080p@60 Hz
Connector: DVI Female Plug
Protocol: DDC/EDID/HDCP Capable

AUDIO
Channel Capacity: L/R Analog/1 SPDIF
Operating Mode: Unbalanced (Stereo Audio), Digital Audio
Input Impedance: 10KΩ (Stereo Audio) / 75Ω SPDIF
Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio) / 1Vpp SPDIF
Magnitude Freq. Response: 20Hz to 20KHz @ -3dB / 44.1K to 48KHz SPDIF
THD+N: >70 @ 1KHz (Stereo Audio)
Connector: 3.5mm Stereo Jack

SERIAL DATA
Channel Capacity: 2
Signal Format: RS-232 & IR
Data Rate: Up to 57,600 baud
Connector: Terminal Block

PHYSICAL
Dimensions:
Standalone: 4.17"(W) x 4.08"(D) x 1.14"(H)
Wall-plate: 1.69"(W) x 2.69"(D) x 2.80"(H)
Power Consumption: +12VDC @ 1.5 Amps (Max.)
Operating Temperature: 0 to +50°C
Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
LBO-DVI-EAD-T-M-SC, Video/Audio+Data Fiber Transmitter, Multimode, 1-Fiber
LBO-DVI-EA-R-M-SC, Video/Audio Fiber Transmitter, Multimode, 1-Fiber
Add -WP for Wallplate configuration
Add -CH for LBO-CH Chassis mounting kit
Add -UPS for International Universal Power Supply

LBO-DVI-EAD
1-Way DVI 2-Way Audio RS-232

Link Bridge™ Fiber Optic DVI Transmission Systems

Speaker Bridge™ Fiber Optic DVI Transmission Systems

DOING MORE WITH ONE FIBER
**VIDEO SPECIFICATIONS**
- Resolution: Up to 1080p@60Hz or 1920x1200@60Hz
- Connector: DVI Male
- Protocol: DDC/EDID/HDCP Capable

**PHYSICAL**
- **Dimensions**
  - Dimension (H x W x D): 0.65” x 1.58” x 3.12”
- Power Consumption: +5VDC @ 1.0A
- LED Indicator: Power/Link
- Operating Temperature: 0 to +50°C
- Humidity: 0 to 95% RH, Non-Condensing

**OPTICAL**
- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC

**ORDERING INFORMATION**
- LBO-DVI-T-M-SC, Fiber Transmitter, Multimode, 1-Fiber
- LBO-DVI-R-M-SC, Fiber Receiver, Multimode, 1-Fiber
  
  Add -UPS for International Universal Power Supply

**FEATURES**
- Extend DVI Signals up to 400 meters Over Multimode Fiber
- Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video & Audio Provides Zero Loss of Quality
- Supports True DDC/EDID/HDCP Transmission Over Fiber
- Video Over 1 Multimode Fiber
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with SDI, VGA, and S-video Transmitters

**DIMENSIONS**

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**FIBER ELECTRONICS: DVI OVER FIBER**

**DEVICE TRANSPORT**

**LBO-DVI**

**Link Bridge™ Fiber Optic DVI Transmission Systems**

**Module (Tx & Rx)**
FIBER ELECTRONICS: VGA OVER FIBER

DEVICE TRANSPORT

VIDEO SPECIFICATIONS
Resolution: Up to 1080p@60Hz or 1920x1200@60Hz
Connector: HD-15

AUDIO
Channel Capacity: 2
Operating Mode: Unbalanced (Stereo Audio), Bi-directional
Input/Output Impedance: 10k/50 Ohms (Stereo Audio)
Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio)
Magnitude Freq. Response: 20Hz to 20kHz @ -3dB
THD+N: >70 @ 1kHz (Stereo Audio)
Connector: 3.5mm Stereo Jack

SERIAL DATA
Channel Capacity: 2
Signal Format: RS-232
Data Rate: Up to 57.6kbaud
Connector: Terminal Block

PHYSICAL
Dimensions:
- Standalone: 4.17”(W) x 4.08”(D) x 1.14”(H)
- Wall-plate: 1.69”(W) x 2.69”(D) x 2.80”(H)
Power Consumption: +12VDC @ 1.5 Amps (Max.)
Operating Temperature: 0 to +50°C
Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
- LBO-VGA-AD-T-M-SC, Fiber Transmitter, Multimode, 1-Fiber
- LBO-VGA-AD-R-M-SC, Fiber Receiver, Multimode, 1-Fiber
- LBO-VGA/DH, VGA to DVI Converter*
  Add -WP for Wallplate configuration (*LBO-VGA Converter does not support a -WP option)
  Add -CH for LBO-CH Chassis mounting kit
  Add -UPS for International Universal Power Supply

DOIING MORE WITH ONE FIBER

LBO-VGA-AD
VGA  1-Way
AUDIO  2-Way
RS-232  2-Way

LBO-VGA-AD
VGA  1-Way
AUDIO  2-Way
RS-232  2-Way

Wall-Plate (Tx & Rx)
Stand-Alone (Tx & Rx)

FEATURES
- Extend VGA Signals up to 400 meters Over Multimode Fiber
- Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video & Audio Provides Zero Loss of Quality
- Remote VGA/YPbPr Extension
- Audio + Video + Data, Over 1 Multimode Fiber
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with SDI, DVI, and S-video Transmitters

OPTICAL
- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC
- Laser: CLASS 1 LASER PRODUCT

DIMENSIONS

Application Diagram

VGA AUDIO RS-232
Transmitter
Multimode SC Fiber (Up to 400m)
Receiver
VGA AUDIO RS-232

FIBER ELECTRONICS: VGA OVER FIBER

DEVICE TRANSPORT

VIDEO SPECIFICATIONS
Resolution: Up to 1080p@60Hz or 1920x1200@60Hz
Connector: HD-15

AUDIO
Channel Capacity: 2
Operating Mode: Unbalanced (Stereo Audio), Bi-directional
Input/Output Impedance: 10k/50 Ohms (Stereo Audio)
Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio)
Magnitude Freq. Response: 20Hz to 20kHz @ -3dB
THD+N: >70 @ 1kHz (Stereo Audio)
Connector: 3.5mm Stereo Jack

SERIAL DATA
Channel Capacity: 2
Signal Format: RS-232
Data Rate: Up to 57.6kbaud
Connector: Terminal Block

PHYSICAL
Dimensions:
- Standalone: 4.17”(W) x 4.08”(D) x 1.14”(H)
- Wall-plate: 1.69”(W) x 2.69”(D) x 2.80”(H)
Power Consumption: +12VDC @ 1.5 Amps (Max.)
Operating Temperature: 0 to +50°C
Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
- LBO-VGA-AD-T-M-SC, Fiber Transmitter, Multimode, 1-Fiber
- LBO-VGA-AD-R-M-SC, Fiber Receiver, Multimode, 1-Fiber
- LBO-VGA/DH, VGA to DVI Converter*
  Add -WP for Wallplate configuration (*LBO-VGA Converter does not support a -WP option)
  Add -CH for LBO-CH Chassis mounting kit
  Add -UPS for International Universal Power Supply

DOIING MORE WITH ONE FIBER

LBO-VGA-AD
VGA  1-Way
AUDIO  2-Way
RS-232  2-Way

LBO-VGA-AD
VGA  1-Way
AUDIO  2-Way
RS-232  2-Way

Wall-Plate (Tx & Rx)
Stand-Alone (Tx & Rx)

FEATURES
- Extend VGA Signals up to 400 meters Over Multimode Fiber
- Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video & Audio Provides Zero Loss of Quality
- Remote VGA/YPbPr Extension
- Audio + Video + Data, Over 1 Multimode Fiber
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with SDI, DVI, and S-video Transmitters

OPTICAL
- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC
- Laser: CLASS 1 LASER PRODUCT

DIMENSIONS

Application Diagram

VGA AUDIO RS-232
Transmitter
Multimode SC Fiber (Up to 400m)
Receiver
VGA AUDIO RS-232
FIBER ELECTRONICS: VGA OVER FIBER

DEVELOPMENT

LBO-VGA-EAD

Link Bridge™ Fiber Optic VGA Transmission Systems

FEATURES

- Extend VGA Signals up to 300 meters Over Multimode Fiber
- Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video with embedded Audio Provides Zero Loss of Quality
- Supports True DDC/EDID/HDCP Transmission Over Fiber
- Audio/Video + Data, Over 1 Multimode Fiber
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with SDI, DVI, and S-video Receivers

APPLICATION DIAGRAM

VGA

AUDIO

RS-232

Multimode SC Fiber (Up to 300m)

HDMI/AUDIO

TRANSMITTER

RECEIVER

DIMENSIONS

- Wall-Plate (Tx): 4.17” (W) x 4.08” (D) x 1.14” (H)
- Stand-Alone (Tx): 1.69” (W) x 2.69” (D) x 2.80” (H)

PHYSICAL

- Dimensions:
  - Standalone: 4.17” (W) x 4.08” (D) x 1.14” (H)
  - Wall-plate: 1.69” (W) x 2.69” (D) x 2.80” (H)
- Power Consumption: +12VDC @ 1.5 Amps (Max.)
- Operating Temperature: 0 to +50°C
- Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION

- LBO-VGA-EAD-T-M-SC: Video/Audio + Data Fiber Transmitter, Multimode, 1-Fiber
- LBO-VGA-EA-T-M-SC: Video/Audio Fiber Transmitter, Multimode, 1-Fiber

Add -WP for Wallplate configuration
Add -CH for LBO-CH Chassis mounting kit
Add -UPS for International Universal Power Supply

VIDEO SPECIFICATIONS

- Resolution: Up to 1080p@60Hz or 1920x1200@60Hz
- Connector: HD-15 Female Plug
- Protocol: DDC/EDID/HDCP Capable

AUDIO

- Channel Capacity: L/R Analog/1 SPDIF
- Operating Mode: Unbalanced (Stereo Audio), Digital Audio
- Input Impedance: 10k (Stereo Audio) / 75ohm SPDIF
- Max. Input/Output Level: 5 dBu/4Vpp (Stereo Audio) / 1Vpp SPDIF
- Magnitude Freq. Response: 20Hz to 20kHz @ -3dB / 44.1K to 48K Hz SPDIF
- THD + N: >70 @ 1k Hz (Stereo Audio)
- Connector: 3.5mm Stereo Jack

SERIAL DATA

- Channel Capacity: 2
- Signal Format: RS-232 & IR (Infrared)
- Data Rate: Up to 57.6kbaud
- Connector: Terminal Block

OPTICAL

- Fiber Type: Multimode
- Number of Fibers: 1
- Connector: SC

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**VIDEO SPECIFICATIONS**

- **Input Format**: SD-SDI, HD-SDI or 3G-SDI Video
- **Output Format**: DVI/HDMI/VGA Compatible
- **Resolution**: Up to 1080p @ 60Hz
- **Connector**: BNC

**AUDIO**

- **Channel Capacity**: 2
- **Operating Mode**: Unbalanced (Stereo Audio), Bi-directional
- **Input/Output Impedance**: 10k/50 Ohms (Stereo Audio)
- **Max. Input/Output Level**: 5 dBu/4Vpp (Stereo Audio)
- **Magnitude Freq. Response**: 20Hz to 20kHz @ -3dB
- **THD+N**: >70 @ 1kHz (Stereo Audio)
- **Connector**: 3.5mm Stereo Jack

**SERIAL DATA**

- **Channel Capacity**: 2
- **Signal Format**: RS-232
- **Data Rate**: Up to 57.6kbps
- **Connector**: Terminal Block

**PHYSICAL**

- **Dimensions**
  - Standalone: 4.17”(W) x 4.08”(D) x 1.14”(H)
  - Wall-plate: 1.69”(W) x 2.69”(D) x 2.80”(H)
- **Power Consumption**: +12VDC @ 1.5 Amps (Max.)
- **Operating Temperature**: 0 to +50°C
- **Humidity**: 0 to 95% RH, Non-Condensing

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**FEATURES**

- Extend SDI Signals up to 400 meters Over Multimode Fiber
- Supports Full HDTV Video Resolutions up to 720p/1080i/1080p@60 Hz
- Fully Uncompressed Video & Audio Provides Zero Loss of Quality
- Audio + Video + Data, Over 1 Multimode Fiber
- Compatible with our LBO Series Products
- Built-in Signal Conversion When Used with VGA, DVI, and S-video Transmitters

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**ORDERING INFORMATION**

- **LBO-SDI-AD-T**, Fiber Transmitter, Multimode, 1-Fiber
- **LBO-SDI/DH**, SDI to DVI Converter***
  - Add -WP for Wallplate configuration (***LBO-SDI/DH Converter does not support a -WP option)
- **Add-CH for LBO-CH Chassis mounting kit**
- **Add-UPS for International Universal Power Supply**

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**DIMENSIONS**
FIBER ELECTRONICS: USB OVER FIBER

DEVICE TRANSPORT

OPTICAL
- Fiber Type: Multimode or Singlemode (up to 10Km)
- Number of Fibers: 1 or 2
- Connector: SC
- Wavelength: 850nm (MMF), 1310nm or 1550nm

ELECTRICAL
- Signal Format: Up to USB-2.0 High speed (480Mbps) (Host)
- Hub Port Count: 4
- Connector: 1 USB Type-B (Host); 4 USB Type-A (Device)
- LED Indicator: Power, Optical Link, USB Link, Channel Activity
- Power Supply: +12 VDC @ 2.0 A max.

PHYSICAL
- Dimensions: 1.13” x 4.17” x 5.12”
- Card-cage plug-in card: 5.24” x 0.94” x 11.6”
- Supply Voltage/Current: Host: +12VDC @ 0.5 A
- Device: +12VDC @ 1.6 A
- Operating Temperature: 0 to +50°C
- Humidity: 0 to 95% RH, Non-Condensing

ORDERING INFORMATION
- LBO-USB-H-M-SC, USB Host End, Multimode, 2-Fiber
- LBO-USB-D-M-SC, USB Device End, Multimode, 2-Fiber
- Change -M to -S for Singlemode configuration

FEATUES
- Remote USB Transport
- Support for USB 1.1 and 2.0 Devices
- Plug-and-Play, No Driver Set Up
- Up to 14 USB Devices
- Reliable Transmission Over Multimode or Singlemode Fiber
- 1 Fiber Solution is available
- Remote Workstation Transmission
- Fiber link for 4-port USB Hub
- Remote Multimedia Display
- Remote Enterprise Computing

DIMENSIONS

DOBING MORE WITH ONE FIBER
FIBER ELECTRONICS: HDMI AND DVI MATRIX SWITCHES

DEVICE TRANSPORT

FEATURES
- Professional Video Switched Distribution with Multiformat Modular Platform
- HDMI/DVI Centric Video Switching
- HDBaseT Output Switching for Distance HDMI/DVI (Up to 100m w/ PoH)
- Optical I/O Switching for Long Distance HDMI/DVI (Up to 400m)
- Supports True DDC/EDID/HDCP Transmission
- Up to 8x8 Input and Output Ports with 8 or 4 Ports per I/O Card
- Support Resolutions up to 1080p and 1920x1200@60Hz, or up to UltraHD (4K/30Hz)
- Remote Control: Supports RS-232 Control, Ethernet Web GUI, and Telnet Control. HDBaseT and Optical I/O cards support In-Line-Control with compatible Transmitters and Receivers
- Supports Redundant Power Supply
- Compatible with LBO Series Optical Extenders and with the Standard and Designer Series (LBC & LBH model) HDBaseT Extenders

MATRIX SWITCH
- Array Size: Up to 8x8 (configurable by multiple of 8)
- EDID Control: Built-in Internal Standard EDID & Programmable EDID

HDMI/ DVI PORTS*
- Signal: Single Link DVI 1.1, HDMI 1.3
- Resolution: Up to 1080p or 1920x1200@60Hz, or up to 4K/30Hz
- Connector: DVI or HDMI Female Plugs
- Protocol: EDID/DDC and HDCP Capable

FIBER/ HDBaseT PORTS
- Fiber/HDBaseT Type: Multimode 50um or 62.5um or CAT5e/6
- Connector: SC/ RJ45
- Protocol: EDID/DDC and HDCP Capable

PHYSICAL
- Dimensions: 3.5” x 19.0” x 13” Including chassis handle

ORDERING INFORMATION
- LBS-8IN-OPT 8-Input Card, Optical (Video Only)
- LBS-8OUT-OPT 8-Output Card, Optical (Video Only)
- LBS-8IN-OPT-VP 8-Input Card, Optical (AD Compatibility)
- LBS-8OUT-OPT-VP 8-Output Card, Optical (AD Compatibility)
- LBS-8IN-OPT-ILCE 8-Input Card, Optical with Ethernet In-Line Control (AD Compatibility)
- LBS-8OUT-OPT-ILCE 8-Output Card, Optical with Ethernet In-Line Control (AD Compatibility)
- LBS-8IN-DVI 8-Input Card, DVI
- LBS-8OUT-DVI 8-Output Card, DVI
- LBS-8IN-HDMI-4K3 8-Input Card, HDMI, 4K/30Hz
- LBS-8OUT-HDMI-4K3 8-Output Card, HDMI, 4K/30Hz
- LBS-8IN-HDMI 8-Input Card, HDMI, 1080P & WUXGA
- LBS-8OUT-HDMI 8-Output Card, HDMI, 1080P & WUXGA
- LBS-8IN-VGA 8-Input Card, VGA

Replace -8IN or -8OUT with -4IN or -4OUT for 4-Port Card

DIMENSIONS

LBS-0808
HDBaseT, Optical, HDMI, DVI
Link Bridge™ Universal Multi-format Matrix Switch
FIBER ELECTRONICS: HDMI AND DVI MATRIX SWITCHES

DEVICE TRANSPORT

LBS-1616
HDBaseT, Optical, HDMI, DVI

Link Bridge™ Universal Multi-format Matrix Switch

FEATURES
Professional Video Switched Distribution with Multiformat Modular Platform
HDMI/DVI Centric Video Switching
HDBaseT Output Switching for Distance HDMI/DVI (Up to 100m w/ PoH)
Optical I/O Switching for Long Distance HDMI/DVI (Up to 400m)
Supports True DDC/EDID/HDCP Transmission
Up to 16 Input and Output Ports with 8 or 4 Ports per I/O Card
Support Resolutions up to 1080p and 1920x1200@60Hz, or up to UltraHD (4K/30Hz)
Remote Control: Supports RS-232 Control, Ethernet Web GUI, and Telnet Control.
HDBaseT and Optical I/O cards support In-Line-Control with compatible Transmitters and Receivers
Supports Redundant Power Supply
Compatible with LBO Series Optical Extenders and with the Standard and Designer Series (LBC & LBH model) HDBaseT Extenders

MATRX SWITCH
Array Size Up to 16x16 (configurable by multiple of 8)
EDID Control Built-in Internal Standard EDID & Programmable EDID

HDMI/ DVI PORTS*
Signal Single Link DVI 1.1, HDMI 1.3
Resolution Up to 1080p or 1920x1200@60Hz, or up to 4K/30Hz
Connector DVI or HDMI Female Plugs
Protocol EDID/DDC and HDCP Capable

FIBER/ HDBaseT PORTS
Fiber/HDBaseT Type Multimode 50um or 62.5um/ CAT5e/6
Connector SC/ RJ45
Protocol EDID/DDC and HDCP Capable

PHYSICAL
Dimensions 5.25” x 19.0” x 13” (lwh/d)
Including chassis handle

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBS-8IN-OPT</td>
<td>8-Input Card, Optical (Video Only)</td>
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<tr>
<td>LBS-8OUT-OPT</td>
<td>8-Output Card, Optical (Video Only)</td>
</tr>
<tr>
<td>LBS-8IN-OPT-VP</td>
<td>8-Input Card, Optical (AD Compatibility)</td>
</tr>
<tr>
<td>LBS-8OUT-OPT-VP</td>
<td>8-Output Card, Optical (AD Compatibility)</td>
</tr>
<tr>
<td>LBS-8IN-OPT-ILCE</td>
<td>8-Input Card, Optical with Ethernet In-Line Control (AD Compatibility)</td>
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<tr>
<td>LBS-8OUT-OPT-ILCE</td>
<td>8-Output Card, HDBaseT with Ethernet In-Line Control (AD Compatibility)</td>
</tr>
<tr>
<td>LBS-8IN-HDBT-E</td>
<td>8-Input Card, HDBaseT with Ethernet</td>
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<tr>
<td>LBS-8OUT-HDBT-E</td>
<td>8-Output Card, HDBaseT with Ethernet</td>
</tr>
<tr>
<td>LBS-8IN-DVI</td>
<td>8-Input Card, DVI</td>
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<td>LBS-8OUT-DVI</td>
<td>8-Output Card, DVI</td>
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<tr>
<td>LBS-8IN-HDMI-4K3</td>
<td>8-Input Card, HDMI, 4K/30Hz</td>
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<td>LBS-8OUT-HDMI-4K3</td>
<td>8-Output Card, HDMI, 4K/30Hz</td>
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<tr>
<td>LBS-8IN-HDMI</td>
<td>8-Input Card, HDMI, 1080P &amp; WUXGA</td>
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<tr>
<td>LBS-8OUT-HDMI</td>
<td>8-Output Card, HDMI, 1080P &amp; WUXGA</td>
</tr>
<tr>
<td>LBS-8IN-VGA</td>
<td>8-Input Card, VGA</td>
</tr>
</tbody>
</table>

Replace -8IN or -8OUT with -4IN or -4OUT for 4-Port Card

DIMENSIONS

LBS-1616 1616R 1616R-FRONT 1616R-REAR 1616R-TRANS-02.png

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### FEATURES
- Professional Video Switched Distribution with Multiformat Modular Platform
- HDMI/DVI Centric Video Switching
- HDBaseT Output Switching for Distance HDMI/DVI (Up to 100m w/ PoH)
- Optical I/O Switching for Long Distance HDMI/DVI (Up to 400m)
- Supports True DDC/EDID/HDCP Transmission
- Up to 32 Input and Output Ports with 8 or 4 Ports per I/O Card
- Support Resolutions up to 1080p and 1920x1200@60Hz, or up to UltraHD (4K/30 Hz)
- Remote Control: Supports RS-232 Control, Ethernet Web GUI, and Telnet Control.
- HDBaseT and Optical I/O cards support In-Line-Control with compatible Transmitters and Receivers
- Supports Redundant Power Supply
- Compatible with LBO Series Optical Extenders and with the Standard and Designer Series (LBC & LBH model) HDBaseT Extenders

### MATRIX SWITCH
- Array Size: Up to 32x32 (configurable by multiple of 8)
- EDID Control: Built-in Internal Standard EDID & Programmable EDID

### HDMI/ DVI PORTS*
- Signal: Single Link DVI 1.1, HDMI 1.3
- Resolution: Up to 1080p or 1920x1200@60Hz, or up to (4K/30 Hz)
- Connector: DVI or HDMI Female Plugs
- Protocol: EDID/DDC and HDCP Capable

### FIBER/ HDBaseT PORTS
- Fiber/HDBaseT Type: Multimode 50um or 62.5um/ CAT5e/6
- Connector: SC/ RJ45
- Protocol: EDID/DDC and HDCP Capable

### PHYSICAL
- Dimensions: 8.70” x 19.0” x 12” (HxWxD)
- Including chassis handle

### ORDERING INFORMATION
- LBS-BIN-OPT 8-Input Card, Optical (Video Only)
- LBS-8OUT-OPT 8-Output Card, Optical (Video Only)
- LBS-BIN-OPT-VP 8-Input Card, Optical (AD Compatibility)
- LBS-8OUT-OPT-VP 8-Output Card, Optical (AD Compatibility)
- LBS-BIN-OPT-ILCE 8-Input Card, Optical with Ethernet In-Line Control (AD Compatibility)
- LBS-8OUT-OPT-ILCE 8-Output Card, Optical with Ethernet In-Line Control (AD Compatibility)
- LBS-BIN-OPT-ILC2 8-Input Card, Optical with RS232 In-Line Control (AD Compatibility)
- LBS-8OUT-OPT-ILC2 8-Output Card, Optical with RS232 In-Line Control (AD Compatibility)
- LBS-BIN-HDBT-E 8-Input Card, HDBaseT with Ethernet
- LBS-8OUT-HDBT-E 8-Output Card, HDBaseT with Ethernet
- LBS-BIN-DVI 8-Input Card, DVI
- LBS-8OUT-DVI 8-Output Card, DVI
- LBS-BIN-HDMI-4K3 8-Input Card, HDMI, 4K/30Hz
- LBS-8OUT-HDMI-4K3 8-Output Card, HDMI, 4K/30Hz
- LBS-BIN-HDMI 8-Input Card, HDMI, 1080p & WUXGA
- LBS-8OUT-HDMI 8-Output Card, HDMI, 1080p & WUXGA
- LBS-BIN-VGA 8-Input Card, VGA

*The input ports of the LBS are fully compatible with our LBD/LBC/LBH Series products in DVI, HDMI, VGA, YPbPr, S-Video, SD-SDI, HD-SDI, 3G-SDI