

Bringing the Real World into View

Professional AV Installation Solutions



**Chengguan Technology
(Beijing) Co., Ltd.**

2026

PRODUCT CATALOG

Fiber Optic Extenders • USB Extenders • HDBaseT Extenders

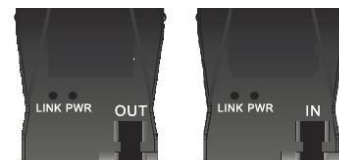
Fiber Optic Extenders



MI Series plug-in fiber optic extenders provide lossless, uncompressed video with zero-frame latency and 100% reproduction of the source signal in a compact, lightweight design. They use standard LC fiber connectors and are available for single-mode and multimode fiber. In pass-through and learning modes, a single signal can be transmitted losslessly within the specified distance, at resolutions up to 4K or 8K. The units plug directly into the source and display for plug-and-play operation. Built-in, learning and pass-through EDID modes, together with EDID learning and mode-selection buttons, support a wide range of display applications.

PRODUCT FEATURES

- Lossless, uncompressed video extension with zero-frame latency and 100% source-signal reproduction.
- Direct connection to the source and display; plug-and-play operation.
- Automatic input equalization improves signal stability.
- Metal housing provides efficient heat dissipation and reliable operation.
- EDID learning and built-in presets support diverse applications.
- The transmitter can draw power from the connected interface.



Standard LC interface



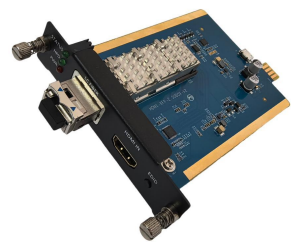
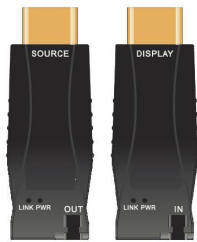
Single-Fiber Single-Mode HDMI 1.4 Extender
Model: MI-H14L

FEATURES

- Compact plug-in design for a secure connection.
- Stable and reliable, with signal security and EMI/EMC performance.
- EDID learning and built-in preset modes.

ITEM SPECIFICATIONS

Signal	HDMI 1.4
Input Ports	TX: HDMI Type-A male; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: HDMI Type-A male
Fiber Type	Single-mode G657.A1
Operating Temp.	-10°C to +70°C
Housing	Zinc alloy
Dimensions	TX/RX: 60 × 20 × 10.5 mm
Power	5 V DC / 1 A; Micro USB-B
Resolution	3840 × 2160 @ 30 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 10,000 m



Optional transmitter card

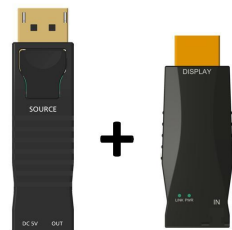
Single-Fiber Single-Mode DP 1.1 + HDMI 1.4 Extender
Model: MI-DPH14L

FEATURES

- Compact plug-in design for a secure connection.
- Stable and reliable, with signal security and EMI/EMC performance.
- Multiple EDID modes: pass-through, learning and built-in presets.

ITEM SPECIFICATIONS

Signal	HDMI 1.4
Input Ports	TX: DP Type-A male; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: HDMI Type-A male
Fiber Type	Single-mode G657.A1
Operating Temp.	-10°C to +75°C
Housing	Zinc alloy
Dimensions	TX: 71 × 19.5 × 15 mm; RX: 60 × 20 × 10.5 mm
Power	5 V DC / 1 A; Micro USB-B
Resolution	3840 × 2160 @ 30 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 10,000 m



Single-Fiber Single-Mode DVI Extender

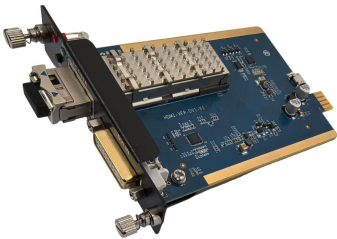
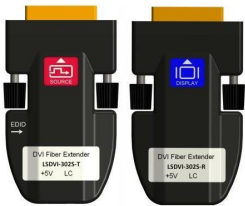
Model: MI-D01L

FEATURES

- Gold-plated DVI pins withstand repeated mating cycles.
- Stable and reliable, with signal security and EMI/EMC performance.
- Multiple EDID modes: pass-through, learning and built-in presets.

ITEM SPECIFICATIONS

Signal	HDMI 1.4
Input Ports	TX: DVI 18+1 male; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: DVI 18+1 male
Fiber Type	Single-mode G657.A1
Operating Temp.	-10°C to +70°C
Housing	Zinc alloy
Dimensions	TX/RX: 69.5 × 39 × 12.4 mm
Power	5 V DC / 1 A
Resolution	1920 × 1200 @ 60 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 10,000 m



Optional transmitter card

Single-Fiber Single-Mode DP 1.1 + DVI Extender

Model: MI-DPD01L

FEATURES

- Compact design with gold-plated DP and DVI connectors.
- Stable and reliable, with signal security and EMI/EMC performance.
- Multiple EDID modes: pass-through, learning and built-in presets.

ITEM SPECIFICATIONS

Signal	HDMI 1.4
Input Ports	TX: DP Type-A male; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: DVI 18+1 male
Fiber Type	Single-mode G657.A1
Operating Temp.	-10°C to +70°C
Housing	Zinc alloy
Dimensions	TX: 71 × 19.5 × 15 mm; RX: 69.5 × 39 × 12.4 mm
Power	5 V DC / 1 A; Micro USB-B
Resolution	1920 × 1200 @ 60 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 10,000 m



DP connector

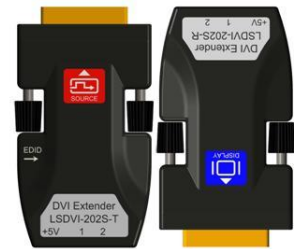


DVI connector

Dual-Fiber Single-Mode DVI Extender

Model: MI-D02L

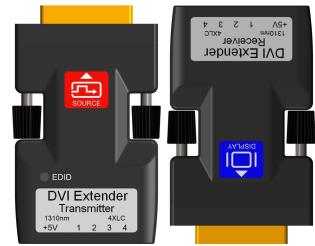
FEATURES	
• Gold-plated DVI pins withstand repeated mating cycles. • Stable and reliable, with signal security and EMI/EMC performance. • Multiple EDID modes: pass-through, learning and built-in presets.	
ITEM SPECIFICATIONS	
Signal	HDMI 1.4
Input Ports	TX: DVI 18+1 male; RX: dual-fiber LC
Output Ports	TX: dual-fiber LC; RX: DVI 18+1 male
Fiber Type	Single-mode G657.A1
Operating Temp.	−10°C to +70°C
Housing	Zinc alloy
Dimensions	TX/RX: 69 × 42 × 16 mm
Power	5 V DC / 1 A
Resolution	1920 × 1200 @ 60 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 2,000 m



Four-Fiber Single-Mode DVI Extender

Model: MI-D04L

FEATURES	
• Gold-plated DVI pins withstand repeated mating cycles. • Stable and reliable, with signal security and EMI/EMC performance. • Multiple EDID modes: pass-through, learning and built-in presets.	
ITEM SPECIFICATIONS	
Signal	HDMI 1.4
Input Ports	TX: DVI 18+1 male; RX: four-fiber LC
Output Ports	TX: four-fiber LC; RX: DVI 18+1 male
Fiber Type	Single-mode G657.A1
Operating Temp.	−10°C to +70°C
Housing	Zinc alloy
Dimensions	TX/RX: 65 × 39 × 15 mm
Power	5 V DC / 1 A
Resolution	1920 × 1200 @ 60 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 2,000 m



BF Series • Box-Type Fiber Optic Extenders

BF Series extenders deliver lossless, uncompressed transmission with zero-frame latency and 100% reproduction of the source signal. Transmitters can be installed as plug-in cards in a standard rackmount chassis for centralized power management and convenient rack installation. Standard LC single-mode fiber carries video, Ethernet, RS232, audio and USB signals losslessly within the specified distance. Video resolutions up to 4K or 8K are supported. Built-in, learning and pass-through EDID modes, with learning and mode-selection buttons, support professional installation applications.



Single-Fiber Single-Mode HDMI 1.4 + RJ45 Extender

Model: BF-HE14L

FEATURES

- Full-featured HDMI 1.4 supports CEC, HDR, HDCP, ARC and 3D.
- Two 100 Mbps RJ45 ports support bidirectional data and control.
- EDID locking with learning and built-in preset modes.

ITEM SPECIFICATIONS

Signal	HDMI 1.4
Input Ports	TX: HDMI Type-A female, 2 × RJ45; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: HDMI Type-A female, 2 × RJ45
Fiber Type	Single-mode G657.A1
Operating Temp.	−10°C to +70°C
Housing	Formed sheet metal
Dimensions	TX/RX: 160 × 85 × 26 mm
Power	12 V DC / 2 A
Resolution	3840 × 2160 @ 30 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 300 m (10 km optional)



Transmitter



Receiver



Optional 16-channel rackmount chassis



Optional transmitter card

Single-Fiber Single-Mode HDMI 2.0 + RJ45 + RS232 + Audio Extender
Model: BF-HE20L

FEATURES

- Full-featured HDMI 2.0 supports HDR, HDCP, ARC and 3D.
- Two 100 Mbps RJ45 ports support bidirectional data and control.
- EDID locking, pass-through and built-in preset modes.

ITEM SPECIFICATIONS

Signal	HDMI 2.0
Input Ports	TX: HDMI Type-A female, 2 × RJ45, RS232, Audio; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: HDMI Type-A female, 2 × RJ45, RS232, Audio
Fiber Type	Single-mode G657.A1
Operating Temp.	−10°C to +70°C
Housing	Formed sheet metal
Dimensions	TX/RX: 190 × 99.5 × 26 mm
Power	12 V DC / 2 A
Resolution	4096 × 2160 @ 60 Hz / 3840 × 2400 @ 60 Hz / 3840 × 2160 @ 60 Hz
Data Rate	18 Gbps
Distance	Single-mode: 300 m (10 km optional)
Audio De-embedding	Supported



Single-Fiber Single-Mode DP 1.4 + RJ45 + RS232 Extender
Model: BF-DE14L

FEATURES

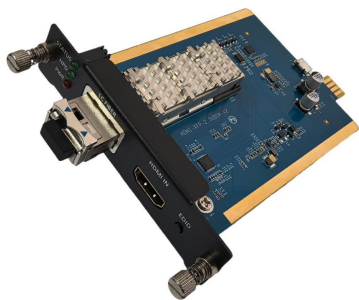
- Full-featured DP 1.4 supports HDR, HDCP, ARC and 3D.
- Two 100 Mbps RJ45 ports support bidirectional data and control.
- EDID locking, pass-through and built-in preset modes.

ITEM SPECIFICATIONS

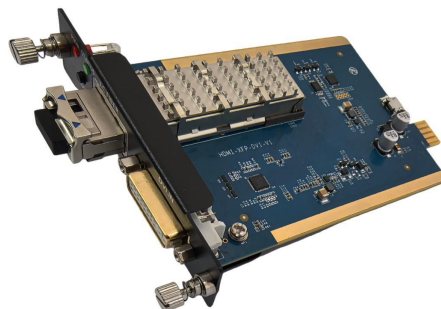
Signal	DP 1.4
Input Ports	TX: DP Type-A female, 2 × RJ45, RS232; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: DP Type-A female, 2 × RJ45, RS232
Fiber Type	Single-mode G657.A1
Operating Temp.	−10°C to +70°C
Housing	Formed sheet metal
Dimensions	TX/RX: 190 × 99.5 × 26 mm
Power	12 V DC / 2 A
Resolution	7680 × 4320 @ 30 Hz / 4K @ 120 Hz
Data Rate	32.4 Gbps
Distance	Single-mode: 300 m (10 km optional)



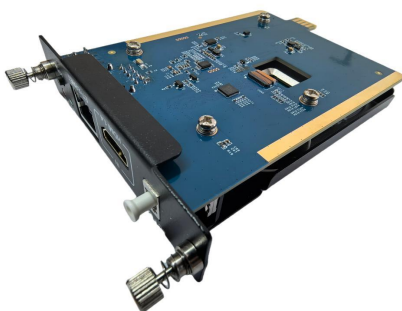
Transmitter Card Options



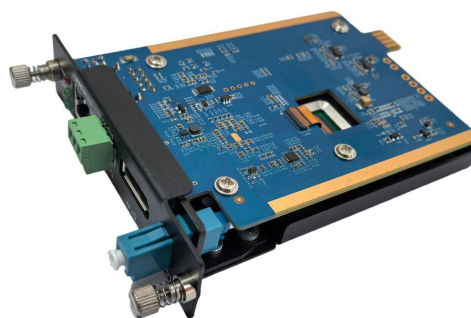
DVI Transmitter Card



HDMI 1.4 Transmitter Card



HDMI 1.4 + Ethernet Transmitter Card



DP 1.4 + Ethernet + RS232 Transmitter Card

Mixed-Card Centralized Management Chassis

RX: Receiver Units

TX: Mixed Transmitter Cards



Note: All configurations shown provide point-to-point signal extension only; signal switching is not supported.

Single-Fiber USB Extender

Model: BF-LU301TR

FEATURES

- Host: USB 3.0; hub: USB 3.0/2.0/1.1.
- Single-mode or OM3+ multimode fiber: data up to 300 m; images up to 100 m.
- Plug and play; no driver software required.

ITEM SPECIFICATIONS

Signal	USB 3.0
Input Ports	Host: USB Type-A; device: single-fiber LC
Output Ports	Host: single-fiber LC; device: 4 × USB Type-A
Fiber Type	Single-mode or OM3 or higher-grade multimode
Operating Temp.	−10°C to +60°C
Housing	Metal
Dimensions	Host: 62 × 22.4 × 10.52 mm; device: 135 × 75 × 26 mm
Power	Host: no external power; device: 12 V DC
Data Rate	5 Gbps



Host unit



Device unit

CONNECTION DIAGRAM

PC → LUSB-301T

↓ Optical fiber

LUSB-301R · 12 V DC

USB 3.0/2.0 storage, camera, Kinect, mouse/keyboard

Single-Fiber USB Extender

Model: BF-LU321TR

FEATURES

- Host and hub both support USB 3.0/2.0/1.1.
- USB 3.0 over single-mode or OM3+ multimode fiber: non-real-time up to 300 m; real-time up to 100 m.
- Plug and play; no driver software required.

ITEM SPECIFICATIONS

Signal	USB 3.0
Input Ports	Host: USB Type-B; device: single-fiber LC
Output Ports	Host: single-fiber LC; device: 4 × USB Type-A
Fiber Type	Single-mode or OM3 or higher-grade multimode
Operating Temp.	−10°C to +60°C
Housing	Metal
Dimensions	Host: 135 × 75 × 26 mm; device: 160 × 85 × 26 mm
Power	Host/device: 12 V DC
Data Rate	5 Gbps
Distance	USB 2.0/1.1: single-mode up to 10 km non-real-time or 6 km real-time; multimode up to 500 m



Host and device units



Connection diagram

Single-Fiber Single-Mode HDMI 1.3 + RS232 + Audio Extender

Model: BF-HW10A

FEATURES

- HDMI 1.3 with HDMI loop output at the transmitter.
- Audio embedding and audio extraction at the receiver.
- EDID DIP switches with EDID locking.

ITEM SPECIFICATIONS

Signal	HDMI 1.3
Input Ports	TX: HDMI Type-A female, IR, RS232, Audio; RX: single-fiber LC, HDMI Type-A female
Output Ports	TX: single-fiber LC; RX: HDMI Type-A female, RS232, IR, Audio
Fiber Type	Single-mode G657.A1
Operating Temp.	-10°C to +70°C
Housing	Formed sheet metal
Dimensions	TX/RX: 117 × 103 × 25 mm
Power	TX/RX: 12 V DC / 1 A
Resolution	1920 × 1200 @ 60 Hz
Distance	Single-mode: 10,000 m



Single-Fiber Single-Mode HDMI 1.3 + RS232 Extender

Model: BF-2K10L

FEATURES

- HDMI 1.3 with HDMI loop output at the receiver.
- Bidirectional RS232 pass-through.
- EDID DIP switches with EDID locking.

ITEM SPECIFICATIONS

Signal	HDMI 1.3
Input Ports	TX: HDMI Type-A female, RS232; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: 2 × HDMI Type-A female, RS232
Fiber Type	Single-mode G657.A1
Operating Temp.	-10°C to +70°C
Housing	Formed aluminum sheet
Dimensions	TX/RX: 113 × 91.5 × 25 mm
Power	TX/RX: 12 V DC / 1 A
Resolution	1920 × 1200 @ 60 Hz
Distance	Single-mode: 10,000 m



Single-Fiber Single-Mode HDMI 2.0 + USB 1.1 + RS232 + Audio Extender
Model: BF-4K10L

FEATURES

- Full-featured HDMI 2.0 with HDMI loop output at the transmitter.
- Independent audio channel, USB 1.1 and bidirectional RS232.
- EDID pass-through and built-in preset modes.

ITEM SPECIFICATIONS

Signal	HDMI 2.0
Input Ports	TX: HDMI Type-A female, Audio, USB, IR, RS232; RX: single-fiber LC, HDMI Type-A female
Output Ports	TX: single-fiber LC; RX: HDMI Type-A female, 2 × USB, Audio, IR, RS232
Fiber Type	Single-mode G657.A1
Operating Temp.	−10°C to +70°C
Housing	Formed sheet metal
Dimensions	TX/RX: 120 × 105 × 25 mm
Power	TX/RX: 12 V DC / 2 A
Resolution	4096 × 2160 @ 60 Hz / 3840 × 2160 @ 60 Hz, 4:4:4
Data Rate	18 Gbps
Distance	Single-mode: 10,000 m



Single-Fiber Single-Mode HDMI 1.4 + USB + RS232 Extender
Model: BF-HU14L

FEATURES

- Full-featured HDMI 1.4 supports CEC, HDR, HDCP, ARC and 3D.
- Bidirectional USB data and control transmission.
- EDID locking with learning and built-in preset modes.

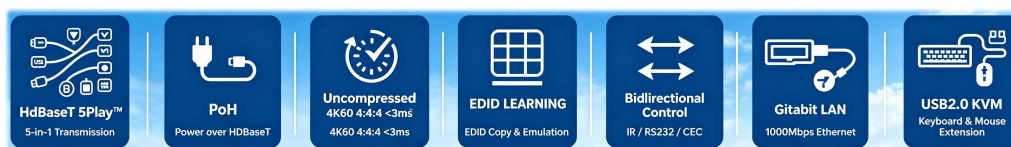
ITEM SPECIFICATIONS

Signal	HDMI 1.4
Input Ports	TX: HDMI Type-A female, USB; RX: single-fiber LC
Output Ports	TX: single-fiber LC; RX: HDMI Type-A female, 2 × USB
Fiber Type	Single-mode G657.A1
Operating Temp.	−10°C to +70°C
Housing	Formed sheet metal
Dimensions	TX/RX: 160 × 85 × 26 mm
Power	12 V DC / 2 A
Resolution	3840 × 2160 @ 30 Hz
Data Rate	10.2 Gbps
Distance	Single-mode: 300 m (10 km optional)



HDBaseT Extenders

HDBaseT extenders provide lossless, uncompressed transmission with ultra-low latency (less than 3 ms), 100% reproduction of the source signal and a compact, lightweight design. Standard RJ45 network cabling carries multiple signals losslessly within the specified distance, at resolutions up to 2K or 4K. Power over HDBaseT (PoH) allows a power supply to be connected at either the transmitter or receiver. EDID selection and DIP-switch locking support a wide range of video display applications.



PRODUCT FEATURES

- Lossless, uncompressed video extension with latency below 3 ms and 100% source-signal reproduction.
- PoH power: connect a power supply at either end.
- Automatic input equalization improves signal stability.
- Metal housing provides efficient heat dissipation and reliable operation.
- EDID selection and DIP-switch locking suit diverse applications.
- Cat 6 or higher-grade cabling enables quick, straightforward installation.
- Custom rackmount transmitter chassis with centralized 220 V power management available.
- HDMI loop output at the transmitter.
- Compatible with HDBaseT inputs on displays; only a transmitter is required.
- HDMI, RS232, USB and Ethernet signals over a single cable.



HDBaseT Twisted-Pair Extender

Model: HDB-2K100

FEATURES

- HDMI loop output at the transmitter.
- Power connection required at only one end.
- EDID pass-through and DIP-switch EDID locking.

ITEM SPECIFICATIONS

Signal	HDMI 1.3
Input Ports	TX: HDMI Type-A female, RS232; RX: RJ45
Output Ports	TX: RJ45; RX: HDMI Type-A female, RS232
Cable Type	Cat 6
Operating Temp.	-10°C to +50°C
Housing	Formed sheet metal
Dimensions	TX/RX: 113 × 80 × 25 mm
Power	TX/RX: 12 V / 1 A
Resolution	1920 × 1200 @ 60 Hz
Data Rate	10.2 Gbps
Distance	100 m



Custom rackmount TX/RX available

HDBaseT Twisted-Pair Extender

Model: HDB-2K150

FEATURES

- HDMI loop output at the transmitter.
- Power connection required at only one end.
- EDID pass-through and DIP-switch EDID locking.

ITEM SPECIFICATIONS

Signal	HDMI 1.3
Input Ports	TX: HDMI Type-A female, RS232; RX: RJ45
Output Ports	TX: RJ45; RX: HDMI Type-A female, RS232
Cable Type	Cat 6
Operating Temp.	-10°C to +50°C
Housing	Formed sheet metal
Dimensions	TX/RX: 113 × 80 × 25 mm
Power	TX/RX: 12 V / 1 A
Resolution	1920 × 1200 @ 60 Hz
Data Rate	10.2 Gbps
Distance	150 m



Custom rackmount TX/RX available

HDBaseT Twisted-Pair Extender

Model: HDB-4K150

FEATURES

- HDMI loop output at the transmitter.
- Power connection required at only one end.
- EDID pass-through and DIP-switch EDID locking.

ITEM SPECIFICATIONS

Signal	HDMI 2.0
Input Ports	TX: HDMI Type-A female, RS232, Audio, IR; RX: RJ45
Output Ports	TX: RJ45; RX: HDMI Type-A female, RS232, Audio, IR
Cable Type	Cat 6
Operating Temp.	-10°C to +50°C
Housing	Formed sheet metal
Dimensions	TX/RX: 117 × 103 × 25 mm
Power	TX/RX: 12 V / 2 A
Resolution	3840 × 2160 @ 60 Hz, 4:4:4
Data Rate	18 Gbps
Distance	120 m (up to 150 m at 1080 resolution)
Audio De-embedding	Supported



Custom rackmount TX/RX available

HDBaseT Twisted-Pair Extender

Model: HDB-2K100U

FEATURES

- HDMI loop output at the transmitter.
- Power connection required at only one end.
- DIP-switch EDID locking and USB 2.0 transmission.

ITEM SPECIFICATIONS

Signal	HDMI 1.3
Input Ports	TX: HDMI Type-A female, RS232, IR, Audio, USB Type-B; RX: RJ45, HDMI Type-A female
Output Ports	TX: RJ45; RX: HDMI Type-A female, RS232, 4 × USB Type-A
Cable Type	Cat 6
Operating Temp.	-10°C to +50°C
Housing	Formed sheet metal
Dimensions	TX/RX: 150 × 85 × 25 mm
Power	TX/RX: 12 V / 2 A
Resolution	2560 × 1440 @ 60 Hz
Data Rate	10.2 Gbps
Distance	100 m

