

10/100 Mbs UTP-to-Fiber Bridging Media Converters



Illustrated: LAN Extender Family

Canary's LAN Extender, CLE-106X, UTP-to-Fiber Bridging Media Converters are longtime standards for 10/100Mbs UTP media conversion to multi-mode or single-mode fiber. With the CLE-106X series, the transition between 10 Mbs and 100 Mbs is very straightforward. They easily make simple connections linking legacy 10 Mbs networks and newer 100 Mbs segments into a unified network.

Functioning as Collision Domain Extenders, a pair of CLE-106X units allows users of 100 Mbs networks containing older half-duplex equipment with distance limitations to extend their effective reach by segmenting the network into two separate 100 Mbs half-duplex collision domains. Better yet, the network can be segmented into half-duplex and full-duplex segments with a CLE-106X bridging and buffering the data traffic between them. Each segment is free to operate within its optimal performance envelope without negatively impacting each other.

Setting the standard ... installed success.

CLE-106X
UTP-to-Fiber
Multi-mode Bridging
Media Converters

CLE-106XS
UTP-to-Fiber
Single-mode Bridging
Media Converters

Features:

512 MAC Address
look up table

IEEE 802.1D

The standard for
10/100Mbs UTP media
conversion to multi-
or single-mode fiber.



Product Specifications

Power Supply:

- Input Voltage: 120 VAC
- Output: 12VDC 800mA
(External power adapter)
- Frequency: 60 Hz

Environmental:

- Operating Temp.: 0 to 50°C
- Storage Temp.: -20 to 70°C
- Relative Humidity: 5% to 95%
non-condensing

Mechanical:

- Height: 0.9" (2.3 cm)
- Length: 4.3" (10.9 cm)
- Width: 2.9" (7.4 cm)
- Ship Weight: 2.0 lb (0.9 Kg)
- Single Unit: 1.2 lb (0.5 Kg)

Regulatory:

- Designed in compliance with CE, UL, CSA & TUV standards
- IEEE 802.3 10BASE-T, 802.3u, 100BASE-TX 100BASE-FX, 802.1D MAC Layer Bridging
- Class 1 lasers conform to US 21CFR101.11, EN 60825-1, UL 1950 and IEC-825

Warranty:

- Three (3) years Parts & Labor

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Standalone 10/100 Mbs UTP-to-Fiber Bridging Media Converters

The page that follows provides ordering information for Canary's Standalone 10/100Mbs UTP-to-Fiber Bridging Media Converter products:

- **UTP-to-Fiber, Multi-mode Bridging Media Converters**
CLE-106X
- **UTP-to-Fiber, Single-mode Bridging Media Converters**
CLE-106XS



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Standalone 10/100 Mbs UTP-to-Fiber Bridging Media Converters

CLE-106X – Standalone UTP-to-Fiber Bridging Media Converters

- Converters are Compliant with IEEE 802.3, 802.3u 10/100 Mbs Ethernet standards
- 148,800 packets/second forwarding rate at 100 Mbs and 14,880 pps at 10 Mbs
- Switch for hard-setting (Forced) Full-duplex or Half-duplex operation on fiber port
- Models with Fiber connectors are compatible with 100BASE-FX
- Converters are transparent to Full and Half-duplex traffic
- UTP port connectors have MDI / MDI-X crossover switch
- Full array of status / diagnostic LEDs
- 512 MAC address lookup table
- Store-and-forward operation
- MAC Layer Bridge
- 5K Byte buffer
- IEEE 802.1D
- Auto-sensing, 110 / 230 VAC Power Supply
- Additional models include: Single-Fiber Bi-Directional single-mode and Extended Reach single-mode are available as special order

Ordering Information

| Fast Ethernet Model Numbers | Media Types | Optical Specifications | | | | | | | | |
|---|-------------|------------------------|-------------|----------------|-----------------|----------------|----------------|----------------|------------------|-------------------|
| | | Min. Tx PWR | Max. Tx PWR | Rx Sensitivity | Min. PWR Budget | Max.PWR Budget | Max. Input PWR | Connector Type | Wavelengths (nm) | Transmit Distance |
| CLE-1061 | UTP / MM | -20.0 dBm | -14.0 dBm | -31.0 dBm | 11.0 dB | 17.0 dB | -8.0 dBm | SC | 1310 nm | 2000 m |
| CLE-1062 | UTP / MM | -20.0 dBm | -14.0 dBm | -31.0 dBm | 11.0 dB | 17.0 dB | -8.0 dBm | ST | 1310 nm | 2000 m |
| <i>Specifications above in blue are for multi-mode, fiber connectors. Specifications below for single-mode, fiber connectors.</i> | | | | | | | | | | |
| CLE-1061S | UTP / SM | -15.0 dBm | -8.0 dBm | -34.0 dBm | 19.0 dB | 26.0 dB | -7.0 dBm | SC | 1310 nm | 30 Km |
| CLE-1062S | UTP / SM | -15.0 dBm | -8.0 dBm | -34.0 dBm | 19.0 dB | 26.0 dB | -7.0 dBm | ST | 1310 nm | 30 Km |

CLE – 106X models are available with long-reach single-mode connectors and Single-Fiber, Bi-Directional Connectors as special order. Please contact Canary for correct model numbers and additional ordering information.



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