CEN-C-F

Ethernet over Fiber Extender

- *Extends Ethernet 2 km over a single multimode fiber strand*
- *Supports 100Base-TX Fast Ethernet*
- *Provides electrical isolation for outdoor runs*
- *No programming or configuration needed*
- *PoE network powered*

The Crestron® CEN-C-F Ethernet over Fiber Extender delivers straightforward, cost-effective Ethernet signal extension for home and commercial applications. Without any special setup or configuration, the CEN-C-F affords long-distance, high-speed communications over a single fiber strand for control systems and other networks. It is advised for use with any outdoor LAN device, and for networking between buildings, providing optical isolation against lightning surges and other electrical disturbances.

Composed of a fiber transmitter and receiver pair, the CEN-C-F enables wire runs up to 2 km (1.24 miles) using just one multimode fiber strand.[1]

The CEN-C-TX-F transmitter[2] and CEN-C-RX-F receiver[2] are each housed in attractive, compact enclosures. Each has provisions for mounting to any flat surface, or to one rail of a 19" EIA equipment rack. Each device gets its power via PoE (Power over Ethernet), eliminating unsightly wallwart power supplies or the need for an extra AC outlet at each location.

SPECIFICATIONS

Communications

Ethernet: 10Base-T/100Base-TX Ethernet signal extension
Fiber: 50/125 or 62.5/125 µm multimode optical fiber, 2 km (1.24 miles) cable length, 1300 nm transmit, 850 nm receive[1]

Connectors – CEN-C-TX-F

G: (1) 6-32 screw, chassis ground lug

MMF/SC: (1) SC female optical fiber connector; multimode fiber output; Connects to CEN-C-RX-F receiver via CresFiber® 8G fiber optic cable[1]

LAN PoE: (1) 8-pin RJ45, female; 10Base-T/100Base-TX Ethernet port, Power over Ethernet compliant

Connectors – CEN-C-RX-F

G: (1) 6-32 screw, chassis ground lug

MMF/SC: (1) SC female optical fiber connector; multimode fiber input; Connects to CEN-C-TX-F transmitter via CresFiber 8G fiber optic cable[1]

LAN PoE: (1) 8-pin RJ45, female; 10Base-T/100Base-TX Ethernet port, Power over Ethernet compliant

Indicator – CEN-C-TX-F

FIBER LINK: (1) Green LED, indicates connection to CEN-C-RX-F receiver
LAN PoE: (2) LEDs, green indicates Ethernet link status, amber indicates Ethernet activity

Indicator – CEN-C-RX-F

FIBER LINK: (1) Green LED, indicates connection to CEN-C-TX-F transmitter
LAN PoE: (2) LEDs, green indicates Ethernet link status, amber indicates Ethernet activity

Power Requirements

Power over Ethernet: (2) IEEE 802.3at Type 1 (802.3af compatible) Class 1 (3.84 W) PoE Powered Devices

Environmental

Temperature: 32° to 104° F (0° to 40° C)
Humidity: 10% to 90% RH (non-condensing)
Temperature: 11 BTU/hr per device

Enclosure (Typical of 2)

Chassis: Aluminum w/polycarbonate label overlay and (4) integral mounting flanges
Mounting: Freestanding, surface mount, or attach to a single rack rail

Dimensions (Typical of 2)

Height: 5.92 in (150 mm)
Width: 3.91 in (100 mm)
Depth: 1.43 in (37 mm)

Weight

14.4 oz (407 g)

CEN-C-F Ethernet over Fiber Extender

MODELS & ACCESSORIES

Available Models

CEN-C-F: Ethernet over Fiber Extender

Available Accessories

PWE-4803RU: PoE Injector
CEN-SW-POE-5: 5-Port PoE Switch
CEN-SWPOE-16: 16-Port Managed PoE Switch
CRESFIBER8G-NP: CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, non-plenum
CRESFIBER8G-P: CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, plenum
CRESFIBER-CONN-SC50UM-12: Connectors for CresFiber® 8G Multimode Fiber Optic Cable, SC 50µm, 12-Pack
CRESFIBER-TK: CresFiber® Termination Kit (AFL Telecommunications™)

Notes:

1. Fiber optic cable and connectors sold separately. Use CresFiber 8G or other quality multimode fiber optic cable.
2. Item is included and cannot be purchased separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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