

# CEN-C-F

## Ethernet over Fiber Extender

- > Extends Ethernet 2 km over a single multimode fiber
- > 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 thin multimode fiber strand<sup>[1]</sup>. Used with our ultra inconspicuous CresFiber® CLEAR fiber optic cable, the CEN-C-F lets you hide your LAN wiring along baseboards and in corners instead of drilling and cutting into the walls.

The CEN-C-TX-F transmitter<sup>[2]</sup> and CEN-C-RX-F receiver<sup>[2]</sup> 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 multi-mode optical fiber, 2 km (1.24 miles) cable length, 1300 nm transmit, 850 nm receive<sup>[1]</sup>

### 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<sup>[1]</sup>  
**LAN PoE:** (1) 8-wire 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<sup>[1]</sup>



**LAN PoE:** (1) 8-wire 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 802.3af (802.3at Type 1) Class 1 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)

# CEN-C-F Ethernet over Fiber Extender

## Weight

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14.4 oz (407 g)

## MODELS & ACCESSORIES

### Available Models

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**CEN-C-F:** Ethernet over Fiber Extender

### Available Accessories

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**PWE-4803RU:** PoE Injector

**CEN-SW-POE-5:** 5-Port PoE Switch

**CEN-SWPOE-16:** 16-Port Managed PoE Switch

**CEN-SWPOE-24:** 24-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:** CresFiber® Fiber Optic Cable Connector (AFL Telecommunications™), SC 50µm, 12-Pack

**CRESFIBER-TK:** CresFiber® Termination Kit (AFL Telecommunications™)

**CRESFIBER-SINGLE-SC-P:** CresFiber® Simplex Fiber Optic Cable Assembly, 50/125, SC, Plenum

**CRESFIBER-SINGLE-SC-ARMORED-P:** CresFiber® ARMORED Simplex Fiber Optic Cable Assembly, 50/125, SC, Armored, Plenum

**CRESFIBER-SINGLE-SC-CLEAR-NP:** CresFiber® CLEAR Simplex Fiber Optic Cable Assembly, 50/125, SC, Non-Plenum

## 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](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

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