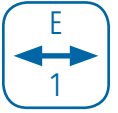


## APPEARANCE



## DESCRIPTION

The ComNet™ CWFE100(X)POE/M Series 2-port media converters provide full-duplex fiber optic transmission of a single channel of 10/100 Mbps Ethernet data (10/100 BASE-TX) through multimode or single mode optical fiber. Type ST, SC or SFP optical connectors are available. They provide full compliance with IEEE 802.3at as Power Sourcing Equipment (PSE), with a maximum power of 30 watts in Mode A or Mode B, making them ideal for those applications where the remote equipment draws significant power. A higher output 60 watt model is available. Mode A and mode B are selected by the media converter automatically. The Ethernet electrical interface auto-negotiates to either 10 or 100 Mbps without the need for any user selection, and the optical interface operates at 100 Mbps (100-FX). Packaged in a rugged, compact sized housing, these units are designed for shelf or stand-alone mounting, or may be DIN-rail mounted by the addition of ComNet model DINBKT2 Adaptor plate kit. LED indicators are provided for rapidly ascertaining the operating status of the device. A power supply providing 48 VDC at 1.25A is provided with each converter. Plug-and-play design ensures ease of operation, and no optical adjustments are ever required.

## APPLICATIONS

- › PoE+ operation of IP Cameras, with pan-tilt-zoom capability
- › PoE+ operation of IP cameras with heated/cooled housings
- › PoE+ operation of remote telemetry and sensing devices for industrial/SCADA networks
- › PoE+ operation of transportation-specific/ITS field equipment
- › PoE+ operation of any 10/100 Mbps Ethernet-compatible field device where high power consumption is required

## FEATURES

- › Exceeds the requirements of the latest PoE+ standard (IEEE 802.3at)
- › Power Sourcing Equipment (PSE): Provides 30 watts in two modes at 48 VDC, for high output demand applications of remote Ethernet equipment
- › 60 watt higher output version available
- › SC, ST or SFP optical connectors available
- › Automatic resettable solid state current limiters for unconditional modem protection
- › Five Year Warranty

\* SFP = Small Form-Factor Pluggable Module

## SPECIFICATIONS

## Data

Data Interface: Ethernet  
Data Rate: 10/100 Mbps  
IEEE 802.3 Compliant  
Full Duplex or Half Duplex Electrical Port/  
Full Duplex Optical Port

## Fibers

ST, SC or SFP Dependent (Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP module options.)

## Connectors

Optical: ST, SC or SFP  
Power: Terminal Block  
Electrical: RJ45

## PoE Pin Assignment

RJ45 port supports IEEE802.3at  
End-point Positive (VCC+): RJ45 pin 1, 2 or 4, 5 Negative (VCC-): RJ45 pin 3, 6 or 7,8  
Data (1, 2, 3, 6)

## Max. PoE Current

600mA continuous

## LED Indicators

- Optical Link/Data Activity  
- Power  
- PoE

## Electrical &amp; Mechanical

Power: 48VDC @ 1.25A  
Surface Mount:  
Current Protection: Automatic Resettable  
Solid-State Current Limiters  
Meets IPC Standard  
Circuit Board:  
Size (in./cm) (L×W×H)  
Standard Size 4.0 × 3.7 × 1.0 in. (10.4 × 9.5 × 2.7 cm)  
Shipping Weight: <1 lb./0.5 kg

## Environmental

MTBF: >100,000 hours  
Operating Temp: 0° C to +50° C @ 30W or 60W PoE output  
-20° C to +60° C @ 15W PoE output  
-40° C to +85° C  
Relative Humidity: 0% to 95% (non-condensing)<sup>†</sup>

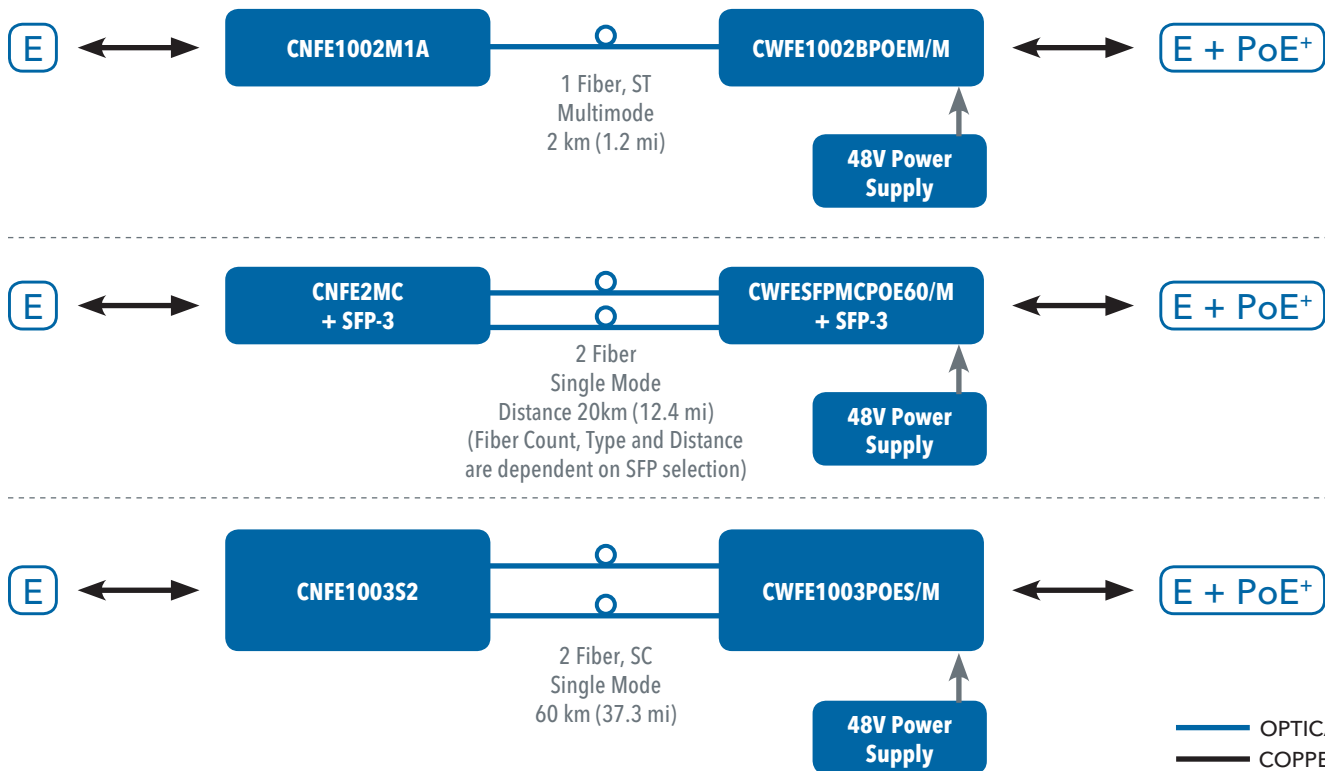
<sup>†</sup> May be extended to condensation conditions

AGENCY COMPLIANCE



MADE IN THE  
**USA**

## TYPICAL APPLICATIONS



## ORDERING INFORMATION

| Part Number            | Description  | Fibers<br>Required | Fiber       | Optic | PSE<br>Output |
|------------------------|--|--------------------|-------------|-------|---------------|
| CWFE1003POEM/M         | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Multimode   | SC    | 30W           |
| CWFE1003POEMHO/M       | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Multimode   | SC    | 60W           |
| CWFE1003POES/M         | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Single Mode | SC    | 30W           |
| CWFE1003POESHO/M       | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Single Mode | SC    | 60W           |
| CWFE1005POEM/M         | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Multimode   | ST    | 30W           |
| CWFE1005POEMHO/M       | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Multimode   | ST    | 60W           |
| CWFE1005POES/M         | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Single Mode | ST    | 30W           |
| CWFE1005POESHO/M       | Commercial Grade 100Mbps Media Converter with 48V POE, Mini  | 2                  | Single Mode | ST    | 60W           |
| CWFE1004APOEM/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Multimode   | SC    | 30W           |
| CWFE1004BPOEM/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Multimode   | SC    | 30W           |
| CWFE1004APOEMHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Multimode   | SC    | 60W           |
| CWFE1004BPOEMHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Multimode   | SC    | 60W           |
| CWFE1004APOES/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Single Mode | SC    | 30W           |
| CWFE1004BPOES/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Single Mode | SC    | 30W           |
| CWFE1004APOESHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Single Mode | SC    | 60W           |
| CWFE1004BPOESHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Single Mode | SC    | 60W           |
| CWFE1002APOEM/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Multimode   | ST    | 30W           |
| CWFE1002BPOEM/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Multimode   | ST    | 30W           |
| CWFE1002APOEMHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Multimode   | ST    | 60W           |
| CWFE1002BPOEMHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Multimode   | ST    | 60W           |
| CWFE1002APOES/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Single Mode | ST    | 30W           |
| CWFE1002BPOES/M        | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Single Mode | ST    | 30W           |
| CWFE1002APOESHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "A" Unit ‡  | 1                  | Single Mode | ST    | 60W           |
| CWFE1002BPOESHO/M      | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, "B" Unit ‡  | 1                  | Single Mode | ST    | 60W           |
| CWFESFPMCPOE30/M       | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, SFP Required  | \$                 | \$          | SFP   | 30W           |
| CWFESFPMCPOE60/M       | Commercial Grade 100Mbps Media Converter with 48V POE, Mini, SFP Required  | \$                 | \$          | SFP   | 60W           |
| Accessories<br>Options | Power Supply: For 30W order PS48VDC-.84A; For 60W order PS48VDC-1.25A<br>Add suffix '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)<br>DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1) |                    |             |       |               |

‡ "A" units must be paired with corresponding "B" units, and "B" units paired with "A" units.

§ Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652.

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended.

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.



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