

### OmniConverter® FPoE+/SE

#### 10/100BASE-T to 100BASE-X Media Converter with Power over Ethernet (PoE or PoE+) Enhanced Version\*

The OmniConverter FPoE+/SE are IEEE 802.3at PoE+ Ethernet media converters that feature one uplink port and one 10/100 RJ-45 PoE+ user ports.

The FPoE+/SE provides up to 30W PoE+ on the RJ-45 user port and supports frame sizes up to 10,240 bytes. The uplink ports can be a SFP receptacle or 10/100 RJ-45 copper port.

The FPoE+/SE are available with Small Form Pluggable (SFP) transceiver receptacles. SFP models support 100Mbps standard, CWDM and DWDM transceivers in a variety of distances and fiber types.

The FPoE+/SE can be tabletop mounted, wall mounted, or DIN-rail mounted using an optional DIN-rail mounting kit. They can also be mounted on a 1U 19" rack-mount shelf. They are available with DC power via terminal connectors or an external 100 to 240V AC power adapters.



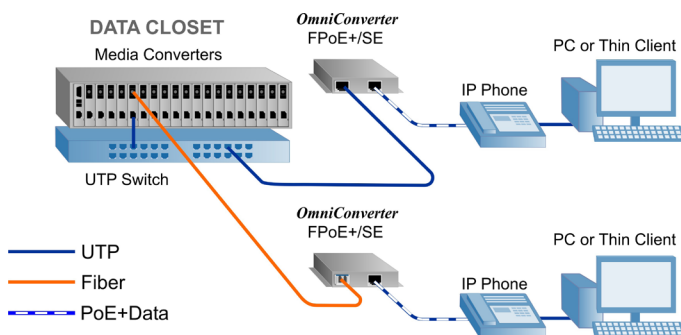
SFPs not included

### APPLICATION

In this application example, a fiber-to-the-desk network is deployed to leverage the security and distance benefits of fiber.

In the main data closet, media converters are installed in high-density rack-mount chassis to provide reliable and cost-effective fiber distribution from existing copper network equipment.

Fiber optic cables run to each office that is outside the 100 meter distance, where they are terminated by OmniConverter FPoE+/SE fiber-to-copper media converters. Copper cable are used when the office is within the 100 meter distance, where they are terminated by OmniConverter FPoE+/SE copper-to-copper media converters



\*See the Model Comparison table on page 4 for the comparison of the previous/old and the enhanced models.

### KEY FEATURES

- IEEE 802.3af/at Fast Ethernet Media Converter
- Compact size
- One 100Mbps SFP or one 10/100 RJ-45 uplink port
- One 10/100 RJ-45 PoE+ user port
- Plug and Play
- Available in AC and DC models
- Commercial (0° to 50°C) and wide (-40° to 60°C) operating temperature ranges
- TAA, BAA and NDAA compliant, and Made in the USA
- Lifetime Warranty and free 24/7 Technical Support

# SPECIFICATIONS

<b>Description</b>	<b>OmniConverter FPoE+/SE</b> 10/100BASE-T to 100BASE-X Fiber Media Converter with PoE+
<b>Standard Compliances</b>	IEEE 802.3, IEEE 802.3af (15.40 watts max), IEEE 802.3at (30 watts max)
<b>Regulatory Compliances (Pending)</b>	<p>Safety: UL 62368-1, UL 60950-1, IEC 62368-1, IEC 60950-1, EN 62368-1, EN 60950-1, CAN/CSA C22.2 No. 62368-1-14, CAN/CSA C22.2 No. 60950-1, CE Mark, UKCA</p> <p>EMC: EN 55032/24 CE Emissions/Immunity, IEC 61000-6-4 Industrial Emissions, IEC 61000-6-2 Industrial Immunity</p> <p>EMI: CISPR 32, FCC 47 Part 15 Subpart B Class A</p> <p>EMS: IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV (DC models), IEC 61000-4-4 EFT: Power: 1 kV; Signal: 1 kV (AC models), IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV (DC models), IEC 61000-4-5 Surge: Power: 1 kV Line/Line; 2 kV Line/Gnd; Signal: 2 kV (AC models), IEC 61000-4-6 CS: Signal: 10 V, IEC 61000-4-8 (Magnetic Field) 30A/m, IEC 61000-4-11 (Voltage Dips, interrupts)</p> <p>IP Rating: IP30D Protection ACT: TAA, BAA, NDAA</p>
<b>Environmental</b>	RoHS, WEEE, REACH
<b>PoE Power Modes</b>	IEEE Alternative A (Alt A)
<b>Frame Size</b>	Up to 10,240 bytes
<b>Port Types</b>	Copper: 10/100BASE-T (RJ-45) Fiber: 100BASE-X (SFP)
<b>Cable Types</b>	Copper: EIA/TIA 568A/B, Cat 5 UTP and higher Fiber: Multimode: 50/125, 62.5/125µm Single-mode: 9/125µm
<b>AC Power Requirements (Models with AC/DC Adapters)</b>	100 - 240VAC/50 to 60Hz 0.31A @ 120VAC (typical)
<b>DC Power Requirements (Models with DC Terminals)</b>	46 to 57VDC; 0.59A @ 56VDC 2 Pin Terminal (isolated) A minimum DC input voltage of 50VDC is required to guarantee 25.5 watts (for 802.3at) at the end of 100 meters on Cat 5 cable or better.
<b>Dimensions (W x D x H)</b>	3.8" x 4.8" x 1.0" (96.5 mm x 121.9 mm x 25.4 mm)
<b>Weight</b>	Module Only: 1.0 lbs.; 453.6 grams Module w/ Adapter: 1.8 lbs.; 816.4grams
<b>Operating Temperature</b>	Commercial: 0 to 50°C Wide: -40 to 60°C (-20°C AC cold start) Storage: -40 to 80°C
<b>Humidity</b>	5 to 95% (non-condensing)
<b>Altitude</b>	-100m to 4,000m
<b>MTBF (hours)</b>	Module Only: 681,000 AC/DC Adapter: 100,000
<b>Warranty</b>	Lifetime warranty with 24/7/365 free Technical Support

Power / Voltage Requirements and Specifications per IEEE		
Description	IEEE 802.3af PoE	IEEE 802.3at PoE+
Power Supply Voltage Range	46.0 to 57.0 VDC	51.0 to 57.0 VDC
Voltage Range at PSE port Output	44.0 to 56.0 VDC	50.0 to 56.0 VDC
Maximum Power from PoE/PSE port	15.4 watts	30 watts
Minimum Voltage at PoE/PD port input (at 100 meters using Cat5 Cable)	37.0 VDC	42.5 VDC
Minimum Power at PoE/PD port (at 100 meters using Cat5 Cable)	12.95 watts	25.5 watts

## ORDERING INFORMATION

The previous/old version of the FPoE/SE and FPoE+/SE are no longer in production. FPoE/SE models 9360 - 9379 and FPoE+/SE 9380 - 9399 are replaced with the enhanced models below.

### Step 1: Choose a Base Part Number (939xN-0-1pt)

Model Number	Description
9398N-0-1pt	FPoE+/SE - 1 x 10/100 RJ-45 Uplink Port + 1 x 10/100 RJ-45 30W Port
9399N-0-1pt	FPoE+/SE - 1 x SFP Uplink Port + 1 x 10/100 RJ-45 30W Port
Contact Omnitron for other fiber options. Order the appropriate 100Mbps SFPs separately. <a href="#">Visit the Omnitron Optical Transceivers web page.</a>	
Contact Omnitron for conformal coating options.	

### Step 2: Choose a Power Option (939xN-0-1pt)

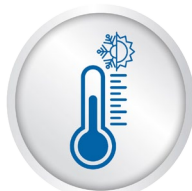
1 = External AC/DC Adapter, 100 - 240 VAC included, with US Power Cord
2 = External AC/DC Adapter, 100 - 240 VAC included, No Power Cord
8 = External AC/DC Adapter, 100 - 240 VAC included, PS JET/PSE Certified, with Japanese Power Cord
9 = Direct DC 2 pin terminal connector, no AC/DC power adapter

### Step 3: Choose an Operating Temperature Range Option (939xN-0-1pt)

<leave blank> = Commercial temperature (0 to 50°C)
W = Wide temperature (-40 to 60°C)

## ACCESSORIES

Model Number	Description
8250-0	DIN Rail Mounting Kit
8251-0	DIN Rail Mounting Clip
8260-0	1U Rack Mount Shelf (four module per shelf)



# MODEL COMPARISON

Previous/Old Base Model	Previous/Old Description	Enhanced Base Model	Enhanced Description
9360 - 9371	<b>FPoE/SE</b> 15 W per RJ-45 User Port Fixed Fiber with 1 or 2 PoE RJ-45	9320N - 9331N	<b>FPoE+/S</b> 30 W per RJ-45 User Port Fixed Fiber with 1 or 2 PoE+ RJ-45
9379	<b>FPoE/SE</b> 15 W per RJ-45 User Port SFP with 1 or 2 PoE RJ-45	9339N	<b>FPoE+/S</b> 30 W per RJ-45 User Port SFP with 1 or 2 PoE+ RJ-45
9380 - 9391	<b>FPoE+/SE</b> 30 W per RJ-45 User Port Fixed Fiber with 1 or 2 PoE+ RJ-45	9320N - 9331N	<b>FPoE+/S</b> 30 W per RJ-45 User Port Fixed Fiber with 1 or 2 PoE+ RJ-45
9399	<b>FPoE+/SE</b> 15 W per RJ-45 User Port SFP with 1 or 2 PoE+ RJ-45	9339N	<b>FPoE+/S</b> 30 W per RJ-45 User Port SFP with 1 or 2 PoE+ RJ-45

Features	Previous/Old Model FPoE/SE and FPoE+/SE	Enhanced Model FPoE+/SE	Benefits
Copper Uplink Ports	N/A	One port	Product flexibility
PoE Power Level	IEEE 802.3af - FPoE/SE IEEE 802.3af/at - FPoE+/SE	IEEE 802.3af/at	15W and 30W versions in one model
Models	Fixed Fiber Model Two RJ-45 PoE User Ports	Not Available	Simplified models available: 1 x SFP + 1 x RJ-45 PoE+ or 1 X RJ-45 + 1 x RJ-45 PoE+
IP Protection	IP20	IP30D	Provides increased enclosure protection

For all models, # of RJ-45 User Ports (y) = 1 or 2, Power Option (p) = 1,2,8 and 9 and Temperature Option (t) = blank and W

Replacement Guide for the Previous/Old FPoE/SE and FPoE+/SE Models			
Previous/Old FPoE/SE Model	Previous/Old FPoE+/SE Model	Enhanced FPoE+/S Model	Enhanced FPoE+/S Product Description
9360-0-ypt	9380-0-ypt	9320N-0-ypt	1310 / 1310 MM ST 5km 7dB
9362-0-ypt	9382-0-ypt	9322N-0-ypt	1310 / 1310 MM SC 5km 7dB
9361-1-ypt	9381-1-ypt	9321N-1-ypt	1310 / 1310 SM ST 30km 16dB
9363-1-ypt	9383-1-ypt	9323N-1-ypt	1310 / 1310 SM SC 30km 16dB
9361-2-ypt	9381-2-ypt	9321N-2-ypt	1310 / 1310 SM ST 60km 26dB
9363-2-ypt	9383-2-ypt	9323N-2-ypt	1310 / 1310 SM SC 60km 26dB
9363-3-ypt	9383-3-ypt	9323N-3-ypt	1550 / 1550 SM SC 120km 26dB
9370-0-ypt	9390-0-ypt	9330N-0-ypt	1310 / 1550 MM-SF SC 5km 20dB
9371-0-ypt	9391-0-ypt	9331N-0-ypt	1550 / 1310 MM-SF SC 5km 20dB
9370-1-ypt	9390-1-ypt	9330N-1-ypt	1310 / 1550 SM-SF SC 20km 15dB
9371-1-ypt	9391-1-ypt	9331N-1-ypt	1550 / 1310 SM-SF SC 20km 15dB
9370-2-ypt	9390-2-ypt	9330N-2-ypt	1310 / 1550 SM-SF SC 40km 22dB
9371-2-ypt	9391-2-ypt	9331N-2-ypt	1550 / 1310 SM-SF SC 40km 22dB
9379-0-2pt	9399-0-2pt	9339N-0-2pt	1 x SFP with 2 x PoE+ RJ-45 Ports
9379-0-1pt	9399-0-1pt	9399N-0-1pt (FPoE+/SE)	1 x SFP with 1 x PoE+ RJ-45 Port

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