

## Omnitron Systems Switches, Extenders, Injectors and Media Converters

Comparison Guide for *OmniConverter*® and *RuggedNet*® PoE Products

### PoE Switch Overview

The OmniConverter and RuggedNet PoE product family of switches have models that support copper or fiber uplink ports, 10/100/1000BASE-T RJ-45 copper user ports, multi-gigabit/multi-rate RJ-45 copper user ports with Power-over-Ethernet (PoE, PoE+ and IEEE 802.3bt) or IEEE 802.3cg compliant 10BASE-T1L copper SPOE user ports.

The Single Pair Power over Ethernet (SPoE) switches features two 10/100/1000 RJ-45 or 100/1000 fiber SFP uplink ports and four 10BASE-T1L 3-pin terminals or IEC 63171-2 SPoE user ports.

The Gigabit PoE switches feature one fixed fiber connector, two 10/100/1000 RJ-45 copper ports or two SFP uplink ports and four or eight 10/100/1000 RJ-45 Power over Ethernet user ports.

The 10Gigabit PoE switches feature two SFP/SFP+ uplink ports and four or eight 10/100/1000 RJ-45 Power over Ethernet user ports.

The 10Gigabit multi-gigabit/multi-rate switches feature one 1/10G SFP/SFP+ or one multi-gigabit/multi-rate RJ-45 uplink port and two multi-gigabit/multi-rate RJ-45 and two 10/100/1000 RJ-45 Power over Ethernet user ports. The RJ-45 user ports support multi-gigabit/multi-rate speeds of 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10Gbps.

All switches are available with or without management (unmanaged switches are shown below).

### OmniConverter PoE Switches

Single Pair Power over Ethernet



10G Multi-Rate



10Gigabit



1Gigabit



### RuggedNet PoE Switches

Single Pair Power over Ethernet



10G Multi-Rate



10Gigabit



1Gigabit



# OmniConverter and RuggedNet PoE Switch Comparison

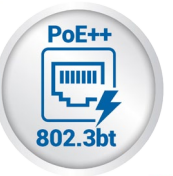
		1 Gigabit PoE Switches														
		Models	Model #	Max PoE Power	Managed	Number of Uplink Ports	Number of RJ-45 Ports	RJ-45 Data Rates	Uplink Data Rates	PoE Reset	Directed Switch Mode	Dual Device Mode	Alarm Contacts	DC Terminal	AC Connector	Temp
1G OmniConverter	GPoE+/Sx	9440 - 9459	IEEE 802.3at 30W		1 or 2 fiber or 2 RJ-45	4 or 8	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C	
	GPoE+/M	9520 - 9539	IEEE 802.3at 30W	✓	1 or 2 fiber or 2 RJ-45	4 or 8	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C	
	GHPoEBT/Sx	3000B - 3019B	IEEE 802.3bt 60W		1 or 2 fiber or 2 RJ-45	4	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C	
		3040B - 3059B	IEEE 802.3bt 100W													
	GHPoEBT/M	3100B - 3119B	IEEE 802.3bt 60W		✓	1 or 2 fiber or 2 RJ-45	4	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
		3140B - 3159B	IEEE 802.3bt 100W													
1G RuggedNet	GPoE+/Si	9560 - 9579	IEEE 802.3at 30W		1 or 2 fiber or 2 RJ-45	4 or 8	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓	✓	2-Pin single or dual		-40 to 75°C	
	GPoE+/Mi	9540 - 9559	IEEE 802.3at 30W	✓	1 or 2 fiber or 2 RJ-45	4 or 8	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓	✓	2-Pin single or dual		-40 to 75°C	
	GHPoEBT/Si	3200B - 3219B	IEEE 802.3bt 60W		1 or 2 fiber or 2 RJ-45	4	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓	✓	2-Pin single or dual		-40 to 75°C	
		3240B - 3259B	IEEE 802.3bt 100W													
	GHPoEBT/Mi	3300B - 3319B	IEEE 802.3bt 60W		✓	1 or 2 fiber or 2 RJ-45	4	10/100/1000	100/1000 fiber or 10/100/1000 copper	✓	✓	✓	✓	2-Pin single or dual		-40 to 75°C
		3340B - 3359B	IEEE 802.3bt 100W													

The OmniConverter GHPoEBT/Sx replaces the GHPoE/Sx and is recommended for all new designs.

The OmniConverter GHPoEBT/M replaces the GHPoE/M and is recommended for all new designs.

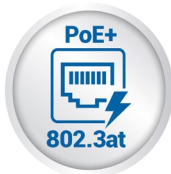
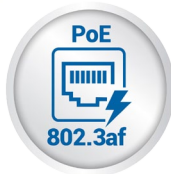
The RuggedNet GHPoEBT/Si replaces the GHPoE/Si and is recommended for all new designs.

The RuggedNet GHPoEBT/Mi replaces the GHPoE/Mi and is recommended for all new designs.



# OmniConverter PoE Switch Comparison

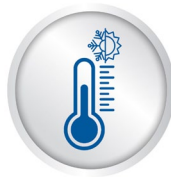
10 Gigabit PoE Switches														
Models	Model #	Max PoE Power	Managed	Number of Uplink Ports	Number of RJ-45 Ports	RJ-45 Data Rates	Uplink Data Rates	PoE Reset	Directed Switch Mode	Dual Device Mode	Alarm Contacts	DC Terminal	AC Connector	Temp
10GMGPoE+/Sx	9651	IEEE 802.3at 30W		1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GMGPoE+/M	9656	IEEE 802.3at 30W	✓	1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GMGPoEBT/Sx	9652	IEEE 802.3bt 60W		1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GMGPoEBT/Sx	9653	IEEE 802.3bt 100W		1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GMGPoEBT/M	9657	IEEE 802.3bt 60W	✓	1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GMGPoEBT/M	9658	IEEE 802.3bt 100W	✓	1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GPoE+/Sx	9581	IEEE 802.3at 30W		2 SFP/SFP+	4 or 8	10/100/1000	1G or 10G	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GPoE+/M	9580	IEEE 802.3at 30W	✓	2 SFP/SFP+	4 or 8	10/100/1000	1G or 10G	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GPoEBT/Sx	3060B	IEEE 802.3bt 60W		2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GPoEBT/Sx	3062B	IEEE 802.3bt 100W		2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GPoEBT/M	3160B	IEEE 802.3bt 60W	✓	2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C
10GPoEBT/M	3162B	IEEE 802.3bt 100W	✓	2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓		2-Pin	DIN-6	0 to 50°C -40 to 60°C -40 to 75°C



# RuggedNet PoE Switch Comparison

## 10 Gigabit PoE Switches

Models	Model #	Max PoE Power	Managed	Number of Uplink Ports	Number of RJ-45 Ports	RJ-45 Data Rates	Uplink Data Rates	PoE Reset	Directed Switch Mode	Dual Device Mode	Alarm Contacts	DC Terminal	AC Connector	Temp
10GMGPoE+/Si	9661	IEEE 802.3at 30W		1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin Dual		-40 to 75°C
10GMGPoE+/Mi	9666	IEEE 802.3at 30W	✓	1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓		✓	2-Pin Dual		-40 to 75°C
10GMGPoEBT/Si	9662	IEEE 802.3bt 60W		1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin Dual		-40 to 75°C
10GMGPoEBT/Si	9663	IEEE 802.3bt 100W		1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓			2-Pin Dual		-40 to 75°C
10GMGPoEBT/Mi	9667	IEEE 802.3bt 60W	✓	1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓		✓	2-Pin Dual		-40 to 75°C
10GMGPoEBT/Mi	9668	IEEE 802.3bt 100W	✓	1 SFP/SFP+ or 1 RJ-45	4	10/100/1000 and Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	1/10G SFP or Multi-gigabit Multi-rate 100/1000/2.5G/5G/10G	✓	✓		✓	2-Pin Dual		-40 to 75°C
10GPoE+/Si	9583	IEEE 802.3at 30W		2 SFP/SFP+	4 or 8	10/100/1000	1G or 10G	✓	✓	✓		2-Pin Dual		-40 to 75°C
10GPoE+/Mi	9582	IEEE 802.3at 30W	✓	2 SFP/SFP+	4 or 8	10/100/1000	1G or 10G	✓	✓	✓	✓	2-Pin Dual		-40 to 75°C
10GPoEBT/Si	3260B	IEEE 802.3bt 60W		2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓		2-Pin Dual		-40 to 75°C
10GPoEBT/Si	3263B	IEEE 802.3bt 100W		2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓		2-Pin Dual		-40 to 75°C
10GPoEBT/Mi	3360B	IEEE 802.3bt 60W	✓	2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓	✓	2-Pin Dual		-40 to 75°C
10GPoEBT/Mi	3363B	IEEE 802.3bt 100W	✓	2 SFP/SFP+	4	10/100/1000	1G or 10G	✓	✓	✓	✓	2-Pin Dual		-40 to 75°C



# OmniConverter and RuggedNet SPoE Switch Comparison

		SPoE Switches													
	Models	Model #	Max SPoE Power	Managed	Number of Uplink Ports	Number of SPE Ports	SPE Data Rates	Uplink Data Rates	SPoE Reset	Directed Switch Mode	Dual Device Mode	Alarm Contacts	DC Terminal	AC Connector	Temp
SPoE OmniConverter	GLPoE/Sx	2931	Class 10 - 12 PDs, 51 watts  Class 13 - 15 PDs, 316 watts		2 fiber or 2 RJ-45	4	10Mbps	100/1000 fiber or 10/100/1000 copper	✓	✓	✓		2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C
	GLPoE/M	2930	Class 10 - 12 PDs, 51 watts  Class 13 - 15 PDs, 316 watts	✓	2 fiber or 2 RJ-45	4	10Mbps	100/1000 fiber or 10/100/1000 copper	✓	✓	✓		2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C
SPoE RuggedNet	GLPoE/Si	2935	Class 10 - 12 PDs, 51 watts  Class 13 - 15 PDs, 316 watts		2 fiber or 2 RJ-45	4	10Mbps	100/1000 fiber or 10/100/1000 copper	✓	✓	✓		Dual 2-Pin		0 to 50°C -40 to 60°C -40 to 75°C
	GLPoE/Mi	2934	Class 10 - 12 PDs, 51 watts  Class 13 - 15 PDs, 316 watts	✓	2 fiber or 2 RJ-45	4	10Mbps	100/1000 fiber or 10/100/1000 copper	✓	✓	✓	✓	Dual 2-Pin		0 to 50°C -40 to 60°C -40 to 75°C



# OmniConverter and RuggedNet PoE Extenders

## PoE Extender Overview

The OmniConverter and RuggedNet PoE Extenders are unmanaged gigabit PoE Extenders that enable the delivery of Ethernet data and Power over Ethernet (PoE) beyond the standard 100 meter limit of twisted pair copper cabling.

Utilizing data regeneration and voltage level boosting capabilities, the PoE Extenders can be daisy chained to break through the Ethernet copper distance barrier and deliver 10/100/1000 data and power to multiple PoE powered devices.

The PoE Extenders are 10/100/1000BASE-T Ethernet devices that function as both Powered Devices (PD) and Power Sourcing Equipment (PSE), and require no external AC power. They feature one PoE/PD port and one or two PoE/PSE ports, and can be powered by an IEEE 802.3at or High-Power PoE 60W power source.

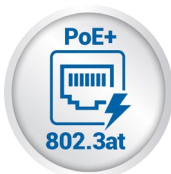
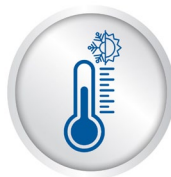
### OmniConverter PoE Extender



### RuggedNet PoE Extender



1G PoE Extenders								
	Models	Model #	Max PoE Power	Number of Uplink Ports	Number of Downlink Ports	RJ-45 Data Rates	Frame Size	Temp
1G OmniConverter Extender	GXPoE+/S	2000	IEEE 802.3at 30W	1	1 or 2	10/100/1000	10K	0 to 50°C -40 to 60°C
	GXHPoE+/S	2001	HPoE 60W	1	1 or 2	10/100/1000	10K	0 to 50°C -40 to 60°C
1G RuggedNet Extender	GXPoE+/Si	2200	IEEE 802.3at 30W	1	1 or 2	10/100/1000	10K	-40 to 75°C
	GXHPoE+/Si	2201	HPoE 60W	1	1 or 2	10/100/1000	10K	-40 to 75°C



# OmniConverter Injector

## PoE Injector Overview

OmniConverter GPoE+/I is an unmanaged gigabit Ethernet power injector that will extend the Ethernet link distance and adds power over the data lines.

The OmniConverter GPoE+/I features one RJ-45 uplink port and one RJ-45 downlink IEEE 802.3af/at PoE+ port. The uplink and downlink ports support 10/100/1000Mbps data rates and are capable of operating asymmetric rates.

The GPoE+/I injector enables connection to devices up to 200 meters away from the head end Ethernet switch (twice the distance of traditional PoE Midspans).



1G PoE Injector							
Models	Model #	Max PoE Power	Number of Uplink Ports	Number of Downlink Ports	RJ-45 Data Rates	Frame Size	Temp
GPoE+/I	1700	IEEE 802.3af/at 30W	1	1	10/100/1000	9K	0 to 50°C -40 to 60°C -40 to 75°C

# OmniConverter Single Pair Ethernet

## Single Pair Ethernet Overview

OmniConverter 10TPS/T1L is an ultra compact unmanaged 10Mbps Ethernet media converter that converts 10BASE-T PoE+ Ethernet to single-pair 10BASE-T1L Ethernet. The 10BASE-T1L uses single-pair Ethernet cabling (SPE) to extend the Ethernet link distance up to 1km. The 10TPS/T1L supports IEEE 802.3af (up to 30 watts) on the 10BASE-T RJ-45 port.

The OmniConverter 10TPS/T1L features one IEEE 802.3cg compliant 10BASE-T1L terminal or IEC 63171 SPE port and one 10BASE-T RJ-45 port supporting 10Mbps full-duplex data rates.



10BASE-T to 10BASE-T1L Converter							
Models	Model #	Max PoE Power	Number of Uplink Ports	Number of Downlink Ports	RJ-45 Data Rates	Frame Size	Temp
10TPS/T1L	2010-010	IEEE 802.3af 30W	1	1	10Mbps	1518	0 to 50°C -40 to 60°C -40 to 75°C



# OmniConverter Single Pair Power over Ethernet

## Single Pair Power over Ethernet Overview

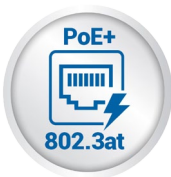
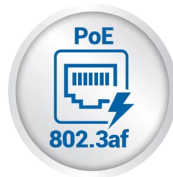
The OmniConverter Single Pair Power over Ethernet converters are IEEE 802.3cg compliant products that function as PoE injectors and Powered Devices. They convert 10BASE-T Ethernet to single-pair 10BASE-T1L Ethernet. They use single-pair Ethernet cabling (SPE) to extend the Ethernet link distance up to 1km.

The Single Pair Power over Ethernet converters feature one IEEE 802.3cg compliant 10BASE-T1L terminal or IEC 63171-1 or IEC 63171-2 or IEC 63171-6 SPE port and one 10BASE-T RJ-45 port supporting 10Mbps full-duplex data rates.



10BASE-T to 10BASE-T1L Power over Ethernet Converters

Models	Base Model #	10BASE-T Port (RJ-45)	Number of Uplink Ports	10BASE-T1L Port (3 Pin or IEC)		Number of Downlink Ports	Data Rate	Frame Size	Temp
10T/LPS	2020	-	1	SPoE PSE	Auto Detects Classes 10 - 15 30/58VDC PD	1	10Mbps	1518	0 to 50°C -40 to 60°C -40 to 75°C
10TPD/LPS	2030	PoE+ PD	1	SPoE PSE	Auto Detects Classes 10 - 15 30/58VDC PD	1	10Mbps	1518	0 to 50°C -40 to 60°C -40 to 75°C
10TPS/LPD58	2045	PoE+ PSE	1	SPoE PD	Class 15 58 VDC PD models	1	10Mbps	1518	0 to 50°C -40 to 60°C -40 to 75°C
10T/LPDS30	2050	-	1	SPoE PD	Class 12 30 VDC PD models with Splitter	1	10Mbps	1518	0 to 50°C -40 to 60°C -40 to 75°C
10T/LPDS58	2055	-	1	SPoE PD	Class 15 58 VDC PD models with Splitter	1	10Mbps	1518	0 to 50°C -40 to 60°C -40 to 75°C



# OmniConverter 10T/APS Single Pair Ethernet

## 10T/APS Single Pair Ethernet Overview

The OmniConverter 10T/APS Single Pair Ethernet converters are 10BASE-T1L products that convert 10BASE-T Ethernet to 10BASE-T1L Ethernet. They are designed for digital instrumentation solutions used for industrial control processes. They utilize single-pair Ethernet cabling (SPE) to extend the Ethernet link distance up to 200 or 1000 meters depending on the model number.

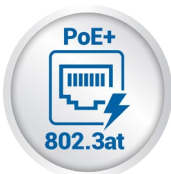
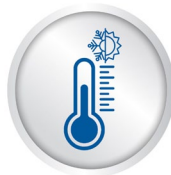
The 10T/APS converters feature one 10BASE-T1L 3-pin terminal or IEC 63171-2 port and one 10BASE-T RJ-45 port supporting 10Mbps full-duplex data rates.

Omnitron 10T/APS converters are interoperable with Ethernet-APL Class A, C, 3 and 4 edge/field devices and act as a Power Source capable of delivering up to 56 watts, depending on the model number. The 10T/APS models 2022 and 2024 support a fixed voltage of 1.0 V peak-to-peak to the field device. Whereas the 2025 and 2027 models use Automatic Link negotiation to transmit 1.0V or 2.4V peak to peak to the filed devices.



**10T/APS Single Pair Power over Ethernet Converters**

Models	Base Model #	10BASE-T Port (RJ-45)	Number of Uplink Ports	10BASE-T1L Port (3 Pin or IEC)		Number of Downlink Ports	Data Rate	Frame Size	Temp
10T/APS	2022	10BASE-T	1	T1L/PSE	9.6 to 15 VDC for Class A field/edge devices 1.0 V peak-to-peak; 0.5 W	1	10Mbps	1518	-40 to 75°C
10T/APS	2024	10BASE-T	1	T1L/PSE	11.61 to 15 VDC for Class C field/edge devices 1.0 V peak-to-peak; 1.0 W	1	10Mbps	1518	-40 to 75°C
10T/APS	2025	10BASE-T	1	T1L/PSE	46 to 50 VDC for Class 3 field/edge devices 1.0/2.4 V peak-to-peak, 36 W	1	10Mbps	1518	-40 to 75°C
10T/APS	2027	10BASE-T	1	T1L/PSE	46 to 50 VDC for Class 4 field/edge devices 1.82 Amps Max 1.0/2.4 V peak-to-peak, 96 W	1	10Mbps	1518	-40 to 75°C



# *OmniConverter PoE Media Converters*

## *PoE Media Converter Overview*

OmniConverter multi-port media converter models support PoE (15W), PoE+ (30W), HPoE (60W) and IEEE 802.3bt (15/30/60/75/100W).

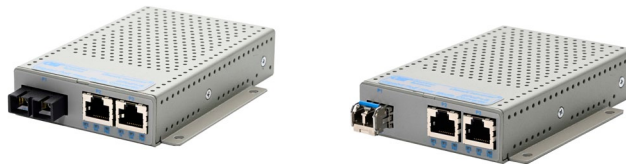
OmniConverter media converters are available with DC power via terminal connectors or an external 100 to 240V AC power adapters.

## *OmniConverter xPoE+/S*

**OmniConverter /S** models are multi-port IEEE 802.3at PoE+ Ethernet media converters that feature one or two uplink ports and one or two RJ-45 PoE+ user ports.

**FPoE+/S** are Fast Ethernet media converters that provide PoE or PoE+ on one or two 10/100 RJ-45 user ports.

**GPoE+/S and GPoEBT/S** are Gigabit media converters that provide PoE, PoE+, HPoE (60W) and IEEE 802.3bt (15/30/60/75/100W) on one or two 10/100/1000 RJ-45 user ports. The SFP receptacle port supports 100M and 1G SFP transceivers.



## *OmniConverter xPoE+/SE*

**OmniConverter /SE** models support two RJ-45 ports, or one SFP port and one RJ-45 port. The /SE models provide a low-cost alternative for applications that do not require advanced features or two fiber ports. Plug-and-play operation for simple and easy installations.

**FPoE+/SE** are cost-effective Fast Ethernet media converters that provide PoE and PoE+.

**GPoE+/SE** are cost-effective Gigabit Ethernet media converters that provide PoE and PoE+.



## *OmniConverter 10GPoE+/S and 10GPoEBT/S*

**OmniConverter 10G PoE** models are unmanaged 10G Ethernet media converters featuring one 1/10G SFP/SFP+ uplink port and one or two multi-gigabit/multi-rate RJ-45 Power-over-Ethernet user ports. They support PoE (15W), PoE+ (30W), HPoE (60W) and IEEE 802.3bt (15/30/60/75/100W).

The RJ-45 user ports support multi-gigabit/multi-rate speeds of 10Mbps, 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10Gbps.

The SFP/SFP+ transceiver receptacle port supports 10/100/1000BASE-T, 1000BASE-T, 100M/1G/2.5G/5G/10GBASE-T multi-gigabit copper transceivers and 1G and 10G multimode or single-mode fiber, dual or single-fiber transceivers in standard, CWDM and DWDM wavelengths.



# OmniConverter PoE Media Converter Comparison

OmniConverter PoE Media Converters														
	Models	Model #	Max PoE Power	Number of Uplink Ports	Number of RJ-45 PoE Ports	RJ-45 Data Rates	Uplink Data Rates	PoE Reset	Directed Switch Mode	Dual Device Mode	Link Fault Modes	DC Terminal	AC Connector	Temp
Fast Ethernet	FPoE+/SE	9398N, 9399N	IEEE 802.3at 30W	1 SFP or 1 RJ-45	1	10/100	Copper 10/100 Fiber 100 SFP					2-Pin	Barrel	0 to 50°C -40 to 60°C
	FPoE+/S	9320N - 9339N		1 or 2 FF/SFP or 1 or 2 RJ-45	1 or 2	10/00	Copper 10/100 Fiber 100 SFP	✓	✓	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C
Gigabit Ethernet	GPoE+/SE	9498N, 9499N	IEEE 802.3at 30W	1 SFP or 1 RJ-45	1	10//100/1000	Copper 10/100/1000 Fiber 1000 SFP					2-Pin	Barrel	0 to 50°C -40 to 60°C
	GPoE+/S	9420N - 9439N		1 or 2 FF/SFP or 1 or 2 RJ-45	1 or 2	10//100/1000	Copper 10/100/1000 Fiber 100/1000 SFP 1000 FF	✓	✓	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C
	GPoEBT/S	9500N - 9519N	IEEE 802.3bt 60W	1 or 2 FF/SFP or 1 or 2 RJ-45	1 or 2	10//100/1000	Copper 10/100/1000 Fiber 100/1000 SFP 1000 FF	✓	✓	✓	✓	2-Pin	Barrel or DIN	0 to 50°C -40 to 60°C -40 to 75°C
	GPoEBT/S	9150N - 9169N	IEEE 802.3bt 100W	1 or 2 FF/SFP or 1 or 2 RJ-45	1 or 2	10//100/1000	Copper 10/100/1000 Fiber 100/1000 SFP 1000 FF	✓	✓	✓	✓	2-Pin	Barrel or DIN	0 to 50°C -40 to 60°C -40 to 75°C
10G Ethernet	10GPoE+/S	9191	IEEE 802.3at 30W	1	1 or 2	Multi-Gigabit Multi-Rate 10/100/1000/ 2.5G/5G/10G	Copper 10/100/1000/ 2.5G/5G/10G Fiber 1G or 10G	✓				2-Pin	Barrel	0 to 50°C -40 to 60°C
	10GPoEBT/S	9192B	IEEE 802.3bt 60W	1	1 or 2	Multi-Gigabit Multi-Rate 10/100/1000/ 2.5G/5G/10G	Copper 10/100/1000/ 2.5G/5G/10G Fiber 1G or 10G	✓				2-Pin	Barrel or DIN	0 to 50°C -40 to 60°C
	10GPoEBT/S	9194B	IEEE 802.3bt 100W	1	1 or 2	Multi-Gigabit Multi-Rate 10/100/1000/ 2.5G/5G/10G	Copper 10/100/1000/ 2.5G/5G/10G Fiber 1G or 10G	✓				2-Pin	Barrel or DIN	0 to 50°C -40 to 60°C

The new enhanced models (xxxxN) of the OmniConverter FPoE+/S, FPoE+/SE, GPoE+/S, GPoE+/SE and GPoEBT/S replaces the previous/old models (xxxx or xxxxB) and are recommended for all new designs.

The previous/old FPoE/S, FPoE/SE, FPoE/SL, GPoE/S and GPoE/SE models are no longer in production and are replaced with the enhanced FPoE+/S, FPoE+/SE, GPoE+/S, GPoE+/SE and GPoEBT/S models.



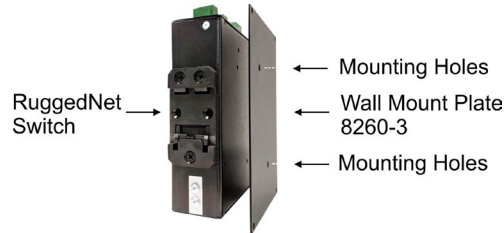
# OmniConverter and RuggedNet Mounting Options

## OmniConverter Wall Mount

The OmniConverter can be wall mounted using the mounting holes on the integrated mounting brackets.

## RuggedNet Wall/Rack Mount Plate

The wall mount plate (8260-3) is used to wall or rack mount any RuggedNet switch or extender. One wall mount plate is required for each module.



## Rack Mount Shelf

The 1U 19" rack mount shelf (8260-0) accommodates RuggedNet switches (x2), RuggedNet extenders (x2), OmniConverter switches (x2), OmniConverter media converters (x3 or x4) or copper extenders (x4). RuggedNet modules will need to have the wall mount plate (8260-3) installed in order to rack mount the modules.



## DIN-Rail Mounting

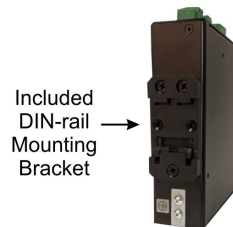
The DIN-Rail mounting clips (8251-0) accommodate any Omnitron product with wall mount brackets. The DIN Rail mounting clip attaches to the wall mount brackets on the module, allowing any wall mount module to be DIN Rail mounted.



The DIN-Rail mounting bracket (8250-0) provides DIN Rail capabilities for OmniConverter media converters with a height dimension of 1 inch. This kit contains all the necessary components to provide DIN Rail mounting for several different mounting orientations.



The RuggedNet switches and extenders can be DIN-rail mounted using the included DIN-rail mount bracket.



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