

Omniconverter[®] Media Converter Comparison

Omniconverter PoE Media Converter Product Family

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Table of Contents

Overview	3
Affected Models.....	3
Models No Longer Available	3
New Features Available on the Enhanced Models	4
New Enhanced Models	4
Replacement Guide Lookup.....	5
Fast Ethernet Media Converters	5
Gigabit Ethernet Media Converters	5
FPoE/SL, FPoE/S and FPoE+/S	6
Comparison of Previous/Old FPoE/SL, FPoE/S and FPoE+/S with Enhanced Models	6
Replacement Guide for the Previous/Old FPoE/SL, FPoE/S and FPoE+/S	7
FPoE/SE and FPoE+/SE.....	8
Comparison of Previous/Old FPoE/SE and FPoE+/SE with Enhanced Models.....	8
Replacement Guide for the Previous/Old FPoE/SE and FPoE+/SE	8
GPoE/S and GPoE+/S.....	9
Comparison of Previous/Old GPoE/S and GPoE+/S with Enhanced Models.....	9
Replacement Guide for the Previous/Old GPoE/S and GPoE+/S	10
GPoE/SE and GPoE+/SE	11
Comparison of Previous/Old GPoE/SE and GPoE+/SE with Enhanced Models	11
Replacement Guide for the Previous/Old GPoE/SE and GPoE+/SE.....	12
GHPoEBT/S 60 and 100 watts	13
Comparison of Previous/Old GHPoEBT/S 60 and 100W with Enhanced Models	13
Replacement Guide for the Previous/Old GHPoEBT/S	14

OVERVIEW

The previous/old OmniConverter Media Converters are being replaced with new enhanced models. This application note describes the improvements and feature differences between the previous/old OmniConverter PoE Media Converters and the new enhanced models.

Two major changes to the product line are the removal of all the FPoE/SL models and the reduction of available models for the OmniConverter /SE. The fixed fiber models and the dual RJ-45 models are no longer available. They have been replaced with the OmniConverter /S.

AFFECTED MODELS

Previous/Old Base Model #	Previous/Old Modules	Enhanced Replacement Base Model #	Enhanced Replacement Modules	Notes
9340	FPoE/SL	9320N	FPoE+/S	See detailed replacement tables.
9300	FPoE/S			
9320	FPoE+/S			
9360	FPoE/SE			
9380	FPoE+/SE			
9400	GPoE/S	9420N	GPoE+/S	See detailed replacement tables.
9420	GPoE+/S			
9460	GPoE/SE			
9480	GPoE+/SE			
9500B	GHPoEBT/S 60W	9500N	GPoEBT/S 60W	See detailed replacement tables.
9150B	GHPoEBT/S 100W	9150N	GPoEBT/S 100W	

MODELS NO LONGER AVAILABLE

Previous/Old Base Model #	Previous/Old Model	Description
9340 - 9359	FPoE/SL	All models are no longer available
9360 - 9379	FPoE/SE	All fixed fiber models are no longer available
9380 - 9399	FPoE+/SE	All dual RJ-45 models are no longer available
9460 - 9479	GPoE/SE	All fixed fiber models are no longer available
9480 - 9499	GPoE+/SE	All dual RJ-45 models are no longer available
9506B, 9506DB, 9507B, 9507DB	GHPoEBT 60W	Dual and Single LC models are no longer available
9156B, 9156DB, 9157B, 9157DB	GHPoEBT 100W	(Use Enhanced GPoEBT/S SFP models with the appropriate SFP transceiver)

NEW FEATURES AVAILABLE ON THE ENHANCED MODELS

Features	FPoE+/SE	FPoE+/S	GPoE+/SE	GPoE+/S	GPoEBT/S
Physical					
Compact Dimensions 3.8" x 4.8" x 1.0" (W x D x H)	✓	✓	✓	✓	✓
IP Protection IP30D	✓	✓	✓	✓	✓
Model Configuration					
Single Model for PoE and PoE+	✓	✓	✓	✓	
Copper Uplink Ports - one or two	One	One or Two	One	One or Two	One or Two
RJ-45 SFP Transceiver Support	N/A	N/A	N/A	✓	✓
Feature Configuration					
Directed Switch Mode	N/A	✓	N/A	✓	✓
Dual Device Mode Models with two uplinks and two user ports	N/A	✓	N/A	✓	✓

NEW ENHANCED MODELS

Enhanced Model	Enhanced Product Name	Description of Enhanced Models
9338N-0-1pt	FPoE+/S	1 x RJ-45 10/100 Uplink Port + 1 x PoE+ 10/100 RJ-45 Port
9338N-0-2pt		1 x RJ-45 10/100 Uplink Port + 2 x PoE+ 10/100 RJ-45 Ports
9338N-1-1pt		2 x RJ-45 10/100 Uplink Ports + 1 x PoE+ 10/100 RJ-45 Port
9338N-1-2pt		2 x RJ-45 10/100 Uplink Ports + 2 x PoE+ 10/100 RJ-45 Ports
9389N-0-1pt	FPoE+/SE	1 x RJ-45 10/100 Uplink Port and 1 x PoE+ 10/100 RJ-45 Port
9438N-0-1pt	GPoE+/S	1 x RJ-45 10/100/1000 Uplink Port + 1 x PoE+ 10/100/1000 RJ-45 Port
9438N-0-2pt		1 x RJ-45 10/100/1000 Uplink Port + 2 x PoE+ 10/100/1000 RJ-45 Ports
9438N-1-1pt		2 x RJ-45 10/100/1000 Uplink Ports + 1 x PoE+ 10/100/1000 RJ-45 Port
9438N-1-2pt		2 x RJ-45 10/100/1000 Uplink Ports + 2 x PoE+ 10/100/1000 RJ-45 Ports
9489N-0-1pt	GPoE+/SE	1 x RJ-45 10/100/1000 Uplink Port and 1 x RJ-45 10/100/1000 PoE+ Port
9518N-0-1pt	GPoEBT/S	1 x RJ-45 10/100/1000 Uplink Port + 1 x BT 10/100/1000 RJ-45 Port
9518N-0-1pt		1 x RJ-45 10/100/1000 Uplink Port+ 2 x BT 10/100/1000 RJ-45 Ports
9518N-1-1pt		2 x RJ-45 10/100/1000 Uplink Ports + 1 x BT 10/100/1000 RJ-45 Port
9518N-1-2pt		2 x RJ-45 10/100/1000 Uplink Ports + 2 x BT 10/100/1000 RJ-45 Port

REPLACEMENT GUIDE LOOKUP

Fast Ethernet Media Converters

Previous/Old Base Model	Previous/Old Description	Enhanced Base Model	Enhanced Description
9300 - 9311	FPoE/S Fixed Fiber with 1 or 2 PoE RJ-45	9320N - 9331N	FPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9319	FPoE/S 1 or 2 SFP with 1 or 2 PoE RJ-45	9339N	FPoE+/S 1 or 2 SFP with 1 or 2 PoE+ RJ-45
9320 - 9331	FPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45	9320N - 9331N	FPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9339	FPoE+/S 1 or 2 SFP with 1 or 2 PoE+ RJ-45	9339N	FPoE+/S 1 or 2 SFP with 1 or 2 PoE+ RJ-45
9340 - 9351	FPoE/SL Fixed Fiber with 1 or 2 PoE RJ-45	9320N - 9331N	FPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9359	FPoE/SL SFP with 1 or 2 PoE RJ-45	9339N	FPoE+/S 1 or 2 SFP with 1 or 2 PoE+ RJ-45
9360 - 9371	FPoE/SE Fixed Fiber with 1 or 2 PoE RJ-45	9320N - 9331N	FPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9379	FPoE/SE SFP with 1 or 2 PoE RJ-45	9339N	FPoE+/S SFP with 1 or 2 PoE+ RJ-45
9380 - 9391	FPoE+/SE Fixed Fiber with 1 or 2 PoE+ RJ-45	9320N - 9331N	FPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9399	FPoE+/SE SFP with 1 or 2 PoE RJ-45	9339N	FPoE+/S SFP with 1 or 2 PoE+ RJ-45

Gigabit Ethernet Media Converters

Previous/Old Base Model	Previous/Old Description	Enhanced Base Model	Enhanced Description
9400 - 9411	GPoE/S Fixed Fiber with 1 or 2 PoE RJ-45	9420N - 9431N	GPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9419	GPoE/S 1 or 2 SFP with 1 or 2 PoE RJ-45	9439N	GPoE+/S 1 or 2 SFP with 1 or 2 PoE+ RJ-45
9420 - 9431	GPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45	9420N - 9431N	GPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9439	GPoE+/S 1 or 2 SFP with 1 / 2 PoE+ RJ-45	9439N	GPoE+/S 1 or 2 SFP with 1 or 2 PoE+ RJ-45
9460 - 9471	GPoE/SE FF with 1 or 2 PoE RJ-45	9420N - 9431N	GPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9479	GPoE/SE SFP with 1 or 2 PoE RJ-45	9439N	GPoE+/S SFP with 1 or 2 PoE+ RJ-45
9480 - 9491	GPoE+/SE Fixed Fiber with 1 or 2 PoE+ RJ-45	9420N - 9431N	GPoE+/S Fixed Fiber with 1 or 2 PoE+ RJ-45
9499	GPoE+/SE SFP with 1 or 2 PoE+ RJ-45	9439N	GPoE+/S SFP with 1 or 2 PoE+ RJ-45
9500B - 9511B	GHPoEBT/S 60W Fixed Fiber with 1 or 2 BT RJ-45	9500N - 9511N	GPoEBT/S 60W Fixed Fiber with 1 or 2 BT RJ-45
9519B	GHPoEBT/S 60W 1 or 2 SFP with 1 or 2 BT RJ-45	9519N	GPoEBT/S 60W 1 or 2 SFP with 1 or 2 BT RJ-45
9150B - 9161B	GHPoEBT/S 100W Fixed Fiber with 1 or 2 BT RJ-45	9150N - 9161N	GPoEBT/S 100W Fixed Fiber with 1 or 2 BT RJ-45
9169B	GHPoEBT/S 100W 1 or 2 SFP with 1 or 2 BT RJ-45	9169N	GPoEBT/S 60W 1 or 2 SFP w/ 1 or 2 BT RJ-45

FPOE/SL, FPOE/S AND FPOE+/S

Comparison of Previous/Old FPoE/SL, FPoE/S and FPoE+/S with Enhanced Models

The Previous/Old OmniConverter FPoE/SL models will be replaced with the Enhanced OmniConverter FPoE+/S models.

Previous/Old FPoE/SL Comparison			
Features	Previous/Old Model	Enhanced Model	Benefits
Copper Uplink Ports	N/A	One or two ports	Product flexibility
Dimensions (W x D x H)	4.5" x 6.0" x 1.0"	3.8" x 4.8" x 1.0"	Compact size
PoE Power Level	IEEE 802.3af	IEEE 802.3af/at	15W and 30W versions in one model
Dual Device Mode	N/A	Models with dual uplink ports	Two independent and isolated Ethernet media converters
Directed Switch Mode	N/A	✓	Prevents multicast (video) traffic from flooding other network ports
Legacy pre-IEEE Power Standards	✓	Alternative A Power Mode	No configuration for the user
IP Protection	IP20	IP30D	Provides increased enclosure protection

Previous/Old FPoE/S and FPoE+/S Comparison			
Features	Previous/Old Model	Enhanced Model	Benefits
Copper Uplink Ports	N/A	One or two ports	Product flexibility
Dimensions (W x D x H)	4.5" x 6.0" x 1.0"	3.8" x 4.8" x 1.0"	Compact size
PoE Power Level	FPoE/S IEEE 802.3af FPoE+/S IEEE 802.3af/at	IEEE 802.3af/at	15W and 30W versions in one model
Dual Device Mode	N/A	Models with dual uplink ports	Two independent and isolated Ethernet media converters
Directed Switch Mode	N/A	✓	Prevents multicast (video) traffic from flooding other network ports
Legacy pre-IEEE Power Standards	✓	Alternative A Power Mode	No configuration for the user
IP Protection	IP20	IP30D	Provides increased enclosure protection

Replacement Guide for the Previous/Old FPoE/SL, FPoE/S and FPoE+/S

For all models, Power Option (p) = 1,2,8 and 9 and Temperature Option (t) = blank, W and Z

Previous/Old FPoE/SL Model	Previous/Old FPoE/S Model	Previous/Old FPoE+/S Model	Enhanced FPoE+/S Model	Enhanced FPoE+/S Product Description
9340-0-1pt	9300-0-1pt	9320-0-1pt	9320N-0-1pt	1 x 1310 / 1310 MM ST 5km 7dB + 1 x PoE+ RJ-45
9340-0-2pt	9300-0-2pt	9320-0-2pt	9320N-0-2pt	1 x 1310 / 1310 MM ST 5km 7dB + 2 x PoE+ RJ-45
9342-0-1pt	9302-0-1pt	9322-0-1pt	9322N-0-1pt	1 x 1310 / 1310 MM SC 5km 7dB + 1 x PoE+ RJ-45
9342-0-2pt	9302-0-2pt	9322-0-2pt	9322N-0-2pt	1 x 1310 / 1310 MM SC 5km 7dB + 2 x PoE+ RJ-45
9341-1-1pt	9301-1-1pt	9321-1-1pt	9321N-1-1pt	1310 / 1310 SM ST 30km 16dB + 1 x PoE+ RJ-45
9341-1-2pt	9301-1-2pt	9321-1-2pt	9321N-1-2pt	1310 / 1310 SM ST 30km 16dB + 2 x PoE+ RJ-45
9343-1-1pt	9303-1-1pt	9323-1-1pt	9323N-1-1pt	1310 / 1310 SM SC 30km 16dB + 1 x PoE+ RJ-45
9343-1-2pt	9303-1-2pt	9323-1-2pt	9323N-1-2pt	1310 / 1310 SM SC 30km 16dB + 2 x PoE+ RJ-45
9341-2-1pt	9301-2-1pt	9321-2-1pt	9321N-2-1pt	1310 / 1310 SM ST 60km 26dB + 1 x PoE+ RJ-45
9341-2-2pt	9301-2-2pt	9321-2-2pt	9321N-2-2pt	1310 / 1310 SM ST 60km 26dB + 2 x PoE+ RJ-45
9343-2-1pt	9303-2-1pt	9323-2-1pt	9323N-2-1pt	1310 / 1310 SM SC 60km 26dB + 1 x PoE+ RJ-45
9343-2-2pt	9303-2-2pt	9323-2-2pt	9323N-2-2pt	1310 / 1310 SM SC 60km 26dB + 2 x PoE+ RJ-45
9343-3-1pt	9303-3-1pt	9323-3-1pt	9323N-3-1pt	1550 / 1550 SM SC 120km 26dB + 1 x PoE+ RJ-45
9343-3-2pt	9303-3-2pt	9323-3-2pt	9323N-3-2pt	1550 / 1550 SM SC 120km 26dB + 2 x PoE+ RJ-45
9350-0-1pt	9310-0-1pt	9330-0-1pt	9330N-0-1pt	1310 / 1550 MM-SF SC 5km 20dB + 1 x PoE+ RJ-45
9350-0-2pt	9310-0-2pt	9330-0-2pt	9330N-0-2pt	1310 / 1550 MM-SF SC 5km 20dB + 2 x PoE+ RJ-45
9351-0-1pt	9311-0-1pt	9331-0-1pt	9331N-0-1pt	1550 / 1310 MM-SF SC 5km 20dB + 1 x PoE+ RJ-45
9351-0-2pt	9311-0-2pt	9331-0-2pt	9331N-0-2pt	1550 / 1310 MM-SF SC 5km 20dB + 2 x PoE+ RJ-45
9350-1-1pt	9310-1-1pt	9330-1-1pt	9330N-1-1pt	1310 / 1550 SM-SF SC 20km 15dB + 1 x PoE+ RJ-45
9350-1-2pt	9310-1-2pt	9330-1-2pt	9330N-1-2pt	1310 / 1550 SM-SF SC 20km 15dB + 2 x PoE+ RJ-45
9351-1-1pt	9311-1-1pt	9331-1-1pt	9331N-1-1pt	1550 / 1310 SM-SF SC 20km 15dB + 1 x PoE+ RJ-45
9351-1-2pt	9311-1-2pt	9331-1-2pt	9331N-1-2pt	1550 / 1310 SM-SF SC 20km 15dB + 2 x PoE+ RJ-45
9350-2-1pt	9310-2-1pt	9330-2-1pt	9330N-2-1pt	1310 / 1550 SM-SF SC 40km 22dB + 1 x PoE+ RJ-45
9350-2-2pt	9310-2-2pt	9330-2-2pt	9330N-2-2pt	1310 / 1550 SM-SF SC 40km 22dB + 2 x PoE+ RJ-45
9351-2-1pt	9311-2-1pt	9331-2-1pt	9331N-2-1pt	1550 / 1310 SM-SF SC 40km 22dB + 1 x PoE+ RJ-45
9351-2-2pt	9311-2-2pt	9331-2-2pt	9331N-2-2pt	1550 / 1310 SM-SF SC 40km 22dB + 2 x PoE+ RJ-45
9359-0-1pt	9319-0-1pt	9339-0-1pt	9339N-0-1pt	1 x SFP + 1 x PoE+ RJ-45
9359-0-2pt	9319-0-2pt	9339-0-2pt	9339N-0-2pt	1 x SFP + 2 x PoE+ RJ-45
9359-1-1pt	9319-1-1pt	9339-1-1pt	9339N-1-1pt	2 x SFP + 1 x PoE+ RJ-45
9359-1-2pt	9319-1-2pt	9339-1-2pt	9339N-1-2pt	2 x SFP + 2 x PoE+ RJ-45

FPOE/SE AND FPOE+/SE

Comparison of Previous/Old FPoE/SE and FPoE+/SE with Enhanced Models

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

Replacement Guide for the Previous/Old FPoE/SE and FPoE+/SE

For all models, Power Option (p) = 1,2,8 and 9 and Temperature Option (t) = blank and W

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

GPOE/S AND GPOE+/S

Comparison of Previous/Old GPOE/S and GPOE+/S with Enhanced Models

Previous/Old GPOE/S and GPOE+/S Comparison			
Features	Previous/Old Model	Enhanced Model	Benefits
Copper Uplink Ports	N/A	One or two ports	Product flexibility
RJ-45 SFP Support	N/A	10/100/1000 SGMII 1G SERDES	Allows for multiple SFP transceiver options
Dimensions (W x D x H)	4.5" x 6.0" x 1.0"	3.8" x 4.8" x 1.0"	Compact size
PoE Power Level	GPOE/S IEEE 802.3af GPOE+/S IEEE 802.3af/at	IEEE 802.3af/at	15W and 30W versions in one model
Dual Device Mode	N/A	Models with dual uplink ports	Two independent and isolated Ethernet media converters
Directed Switch Mode	N/A	✓	Prevents multicast (video) traffic from flooding other network ports
Legacy pre-IEEE Power Standards	✓	Alternative A Power Mode	No configuration for the user
IP Protection	IP20	IP30D	Provides increased enclosure protection

Replacement Guide for the Previous/Old GPoE/S and GPoE+/S

For all models, Power Option (p) = 1,2,8 and 9 and Temperature Option (t) = blank, W and Z

Previous/Old GPoE/S Model	Previous/Old GPoE+/S Model	Enhanced GPoE+/S Model	Enhanced GPoE+/S Product Description
9400-0-1pt	9420-0-1pt	9420N-0-1pt	850 / 850 MM ST 220/550M 7dB + 1 x PoE+ RJ-45
9400-0-2pt	9420-0-2pt	9420N-0-2pt	850 / 850 MM ST 220/550M 7dB + 2 x PoE+ RJ-45
9402-0-1pt	9422-0-1pt	9422N-0-1pt	850 / 850 MM SC 220/550M 7dB + 1 x PoE+ RJ-45
9402-0-2pt	9422-0-2pt	9422N-0-2pt	850 / 850 MM SC 220/550M 7dB + 2 x PoE+ RJ-45
9401-1-1pt	9421-1-1pt	9421N-1-1pt	1310 / 1310 SM ST 12km 10dB + 1 x PoE+ RJ-45
9401-1-2pt	9421-1-2pt	9421N-1-2pt	1310 / 1310 SM ST 12km 10dB + 2 x PoE+ RJ-45
9403-1-1pt	9423-1-1pt	9423N-1-1pt	1310 / 1310 SM SC 12km 10dB + 1 x PoE+ RJ-45
9403-1-2pt	9423-1-2pt	9423N-1-2pt	1310 / 1310 SM SC 12km 10dB + 2 x PoE+ RJ-45
9401-2-1pt	9421-2-1pt	9421N-2-1pt	1310 / 1310 SM ST 34km 18dB + 1 x PoE+ RJ-45
9401-2-2pt	9421-2-2pt	9421N-2-2pt	1310 / 1310 SM ST 34km 18dB + 2 x PoE+ RJ-45
9403-2-1pt	9423-2-1pt	9423N-2-1pt	1310 / 1310 SM SC 34km 18dB + 1 x PoE+ RJ-45
9403-2-2pt	9423-2-2pt	9423N-2-2pt	1310 / 1310 SM SC 34km 18dB + 2 x PoE+ RJ-45
9403-3-1pt	9423-3-1pt	9423N-3-1pt	1550 / 1550 SM SC 80km 18dB + 1 x PoE+ RJ-45
9403-3-2pt	9423-3-2pt	9423N-3-2pt	1550 / 1550 SM SC 80km 18dB + 2 x PoE+ RJ-45
9403-4-1pt	9423-4-1pt	9423N-4-1pt	1550 / 1550 SM SC 110km 24dB + 1 x PoE+ RJ-45
9403-4-2pt	9423-4-2pt	9423N-4-2pt	1550 / 1550 SM SC 110km 24dB + 2 x PoE+ RJ-45
9403-5-1pt	9423-5-1pt	9423N-5-1pt	1550 / 1550 SM SC 140km 30dB + 1 x PoE+ RJ-45
9403-5-2pt	9423-5-2pt	9423N-5-2pt	1550 / 1550 SM SC 140km 30dB + 2 x PoE+ RJ-45
9410-0-1pt	9430-0-1pt	9430N-0-1pt	1310 / 1550 MM-SF SC 550m 9dB + 1 x PoE+ RJ-45
9410-0-2pt	9430-0-2pt	9430N-0-2pt	1310 / 1550 MM-SF SC 550m 9dB + 2 x PoE+ RJ-45
9411-0-1pt	9431-0-1pt	9431N-0-1pt	1550 / 1310 MM-SF SC 550m 9dB + 1 x PoE+ RJ-45
9411-0-2pt	9431-0-2pt	9431N-0-2pt	1550 / 1310 MM-SF SC 550m 9dB + 2 x PoE+ RJ-45
9410-1-1pt	9430-1-1pt	9430N-1-1pt	1310 / 1550 SM-SF SC 20km 10.5dB + 1 x PoE+ RJ-45
9410-1-2pt	9430-1-2pt	9430N-1-2pt	1310 / 1550 SM-SF SC 20km 10.5dB + 2 x PoE+ RJ-45
9411-1-1pt	9431-1-1pt	9431N-1-1pt	1310 / 1550 SM-SF SC 20km 10.5dB + 1 x PoE+ RJ-45
9411-1-2pt	9431-1-2pt	9431N-1-2pt	1310 / 1550 SM-SF SC 20km 10.5dB + 2 x PoE+ RJ-45
9410-2-1pt	9430-2-1pt	9430N-2-1pt	1310 / 1550 SM-SF SC 40km 17dB + 1 x PoE+ RJ-45
9410-2-2pt	9430-2-2pt	9430N-2-2pt	1310 / 1550 SM-SF SC 40km 17dB + 2 x PoE+ RJ-45
9411-2-1pt	9431-2-1pt	9431N-2-1pt	1550 / 1310 SM-SF SC 40km 17dB + 1 x PoE+ RJ-45
9411-2-2pt	9431-2-2pt	9431N-2-2pt	1550 / 1310 SM-SF SC 40km 17dB + 2 x PoE+ RJ-45
9419-0-1pt	9439-0-1pt	9439N-0-1pt	1 x SFP + 1 x PoE+ RJ-45
9419-0-2pt	9439-0-2pt	9439N-0-2pt	1 x SFP + 2 x PoE+ RJ-45
9419-1-1pt	9439-1-1pt	9439N-1-1pt	2 x SFP + 1 x PoE+ RJ-45
9419-1-2pt	9439-1-2pt	9439N-1-2pt	2 x SFP + 2 x PoE+ RJ-45

GPOE/SE AND GPOE+/SE

Comparison of Previous/Old GPoE/SE and GPoE+/SE with Enhanced Models

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

Replacement Guide for the Previous/Old GPoE/SE and GPoE+/SE

For all models, Power Option (p) = 1,2,8 and 9 and Temperature Option (t) = blank and W

Previous/Old GPoE/SE Model	Previous/Old GPoE+/SE Model	Enhanced GPoE+/S Model	Enhanced GPoE+/S Product Description
9460-0-1pt	9480-0-1pt	9420N-0-1pt	850 / 850 MM ST 220/550M 7dB + 1 x PoE+ RJ-45
9460-0-2pt	9480-0-2pt	9420N-0-2pt	850 / 850 MM ST 220/550M 7dB + 2 x PoE+ RJ-45
9462-0-1pt	9482-0-1pt	9422N-0-1pt	850 / 850 MM SC 220/550M 7dB + 1 x PoE+ RJ-45
9462-0-2pt	9482-0-2pt	9422N-0-2pt	850 / 850 MM SC 220/550M 7dB + 2 x PoE+ RJ-45
9461-1-1pt	9481-1-1pt	9421N-1-1pt	1310 / 1310 SM ST 12km 10dB + 1 x PoE+ RJ-45
9461-1-2pt	9481-1-2pt	9421N-1-2pt	1310 / 1310 SM ST 12km 10dB + 2 x PoE+ RJ-45
9463-1-1pt	9483-1-1pt	9423N-1-1pt	1310 / 1310 SM SC 12km 10dB + 1 x PoE+ RJ-45
9463-1-2pt	9483-1-2pt	9423N-1-2pt	1310 / 1310 SM SC 12km 10dB + 2 x PoE+ RJ-45
9461-2-1pt	9481-2-1pt	9421N-2-1pt	1310 / 1310 SM ST 34km 18dB + 1 x PoE+ RJ-45
9461-2-2pt	9481-2-2pt	9421N-2-2pt	1310 / 1310 SM ST 34km 18dB + 2 x PoE+ RJ-45
9463-2-1pt	9483-2-1pt	9423N-2-1pt	1310 / 1310 SM SC 34km 18dB + 1 x PoE+ RJ-45
9463-2-2pt	9483-2-2pt	9423N-2-2pt	1310 / 1310 SM SC 34km 18dB + 2 x PoE+ RJ-45
9463-3-1pt	9483-3-1pt	9423N-3-1pt	1550 / 1550 SM SC 80km 18dB + 1 x PoE+ RJ-45
9463-3-2pt	9483-3-2pt	9423N-3-2pt	1550 / 1550 SM SC 80km 18dB + 2 x PoE+ RJ-45
9463-4-1pt	9483-4-1pt	9423N-4-1pt	1550 / 1550 SM SC 110km 24dB + 1 x PoE+ RJ-45
9463-4-2pt	9483-4-2pt	9423N-4-2pt	1550 / 1550 SM SC 110km 24dB + 2x PoE+ RJ-45
9463-5-1pt	9483-5-1pt	9423N-5-1pt	1550 / 1550 SM SC 140km 30dB + 1 x PoE+ RJ-45
9463-5-2pt	9483-5-2pt	9423N-5-2pt	1550 / 1550 SM SC 140km 30dB + 2 x PoE+ RJ-45
9470-0-1pt	9490-0-1pt	9430N-0-1pt	1310 / 1550 MM-SF SC 550m 9dB + 1 x PoE+ RJ-45
9470-0-2pt	9490-0-2pt	9430N-0-2pt	1310 / 1550 MM-SF SC 550m 9dB + 2 x PoE+ RJ-45
9471-0-1pt	9491-0-1pt	9431N-0-1pt	1550 / 1310 MM-SF SC 550m 9dB + 1 x PoE+ RJ-45
9471-0-2pt	9491-0-2pt	9431N-0-2pt	1550 / 1310 MM-SF SC 550m 9dB + 2 x PoE+ RJ-45
9470-1-1pt	9490-1-1pt	9430N-1-1pt	1310 / 1550 SM-SF SC 20km 10.5dB + 1 x PoE+ RJ-45
9470-1-2pt	9490-1-2pt	9430N-1-2pt	1310 / 1550 SM-SF SC 20km 10.5dB + 2 x PoE+ RJ-45
9471-1-1pt	9491-1-1pt	9431N-1-1pt	1310 / 1550 SM-SF SC 20km 10.5dB + 1 x PoE+ RJ-45
9471-1-2pt	9491-1-2pt	9431N-1-2pt	1310 / 1550 SM-SF SC 20km 10.5dB + 2x PoE+ RJ-45
9470-2-1pt	9490-2-1pt	9430N-2-1pt	1310 / 1550 SM-SF SC 40km 17dB + 1 x PoE+ RJ-45
9470-2-2pt	9490-2-2pt	9430N-2-2pt	1310 / 1550 SM-SF SC 40km 17dB + 2x PoE+ RJ-45
9471-2-1pt	9491-2-1pt	9431N-2-1pt	1550 / 1310 SM-SF SC 40km 17dB + 1 x PoE+ RJ-45
9471-2-2pt	9491-2-2pt	9431N-2-2pt	1550 / 1310 SM-SF SC 40km 17dB + 2 x PoE+ RJ-45
9479-0-1pt	9499-0-1pt	9439N-0-1pt 9499N-0-1pt (GPoE+/SE)	1 x SFP + 1 x PoE+ RJ-45
9479-0-2pt	9499-0-2pt	9439N-0-2pt	1 x SFP + 2 x PoE+ RJ-45

GHPoEBT/S 60 AND 100 WATTS

Comparison of Previous/Old GHPoEBT/S 60 and 100W with Enhanced Models

Previous/Old GHPoEBT/S 60 and 100W Comparison			
Features	Previous/Old Model	Enhanced Model	Benefits
Copper Uplink Ports	N/A	One or two ports	Product flexibility
RJ-45 SFP Support	N/A	10/100/1000 SGMII 1G SERDES	Allows for multiple SFP transceiver options
Dimensions (W x D x H)	4.5" x 6.0" x 1.0"	3.8" x 4.8" x 1.0"	Compact size
Dual Device Mode	N/A	Models with dual uplink ports	Two independent and isolated Ethernet media converters
Directed Switch Mode	N/A	✓	Prevents multicast (video) traffic from flooding other network ports
Legacy pre-IEEE Power Standards	✓	Alternative A and 4 Pair Power Mode	No configuration for the user
IP Protection	IP20	IP30D	Provides increased enclosure protection

Replacement Guide for the Previous/Old GHPoEBT/S

For all models, Power Option (p) = 1,2,8 and 9 and Temperature Option (t) = blank, W and Z

Previous/Old GHPoEBT/S 60W Model	Previous/Old GHPoEBT/S 100W Model	Enhanced GPoEBT/S 60W Model	Enhanced GPoEBT/S 100W Model	Enhanced GPoEBT/S Product Description
9500B-0-1pt	9150B-0-1pt	9500N-0-1pt	9150N-0-1pt	850 / 850 MM ST 220/550M 7dB + 1 x BT RJ-45
9500B-0-2pt	9150B-0-2pt	9500N-0-2pt	9150N-0-2pt	850 / 850 MM ST 220/550M 7dB + 2 x BT RJ-45
9502B-0-1pt	9152B-0-1pt	9502N-0-1pt	9152N-0-1pt	850 / 850 MM SC 220/550M 7dB + 1 x BT RJ-45
9502B-0-2pt	9152B-0-2pt	9502N-0-2pt	9152N-0-2pt	850 / 850 MM SC 220/550M 7dB + 2 x BT RJ-45
9506B-0-1pt	9156B-0-1pt	9519N-0-1pt	9169N-0-1pt	Use 1 x SFP model with 1 x 7206-0 SFP + 1 x BT RJ-45
9506B-0-2pt	9156B-0-2pt	9519N-0-2pt	9169N-0-2pt	Use 1 x SFP model with 1 x 7206-0 SFP + 2 x BT RJ-45
9506DB-0-1pt	9156DB-0-1pt	9519N-1-1pt	9169N-1-1pt	Use 2 x SFP model with 2 x 7206-0 SFP + 1 x BT RJ-45
9506DB-0-2pt	9156DB-0-2pt	9519N-1-2pt	9169N-1-2pt	Use 2 x SFP model with 2 x 7206-0 SFP + 2 x BT RJ-45
9501B-1-1pt	9151B-1-1pt	9501N-1-1pt	9151N-1-1pt	1310 / 1310 SM ST 12km 10dB + 1 x BT RJ-45
9501B-1-2pt	9151B-1-2pt	9501N-1-2pt	9151N-1-2pt	1310 / 1310 SM ST 12km 10dB + 2 x BT RJ-45
9503B-1-1pt	9153B-1-1pt	9503N-1-1pt	9153N-1-1pt	1310 / 1310 SM SC 12km 10dB + 1 x BT RJ-45
9503B-1-2pt	9153B-1-2pt	9503N-1-2pt	9153N-1-2pt	1310 / 1310 SM SC 12km 10dB + 2 x BT RJ-45
9507B-1-1pt	9157B-1-1pt	9519N-0-1pt	9169N-0-1pt	Use 1 x SFP model with 1 x 7207-1 SFP + 1 x BT RJ-45
9507B-1-2pt	9157B-1-2pt	9519N-0-2pt	9169N-0-2pt	Use 1 x SFP model with 1 x 7207-1 SFP + 2 x BT RJ-45
9507DB-1-1pt	9157DB-1-1pt	9519N-1-1pt	9169N-1-1pt	Use 2 x SFP model with 2 x 7207-1 SFP + 1 x BT RJ-45
9507DB-1-2pt	9157DB-1-2pt	9519N-1-2pt	9169N-1-2pt	Use 2 x SFP model with 2 x 7207-1 SFP + 2 x BT RJ-45
9501B-2-1pt	9151B-2-1pt	9501N-2-1pt	9151N-2-1pt	1310 / 1310 SM ST 34km 18dB + 1 x BT RJ-45
9501B-2-2pt	9151B-2-2pt	9501N-2-2pt	9151N-2-2pt	1310 / 1310 SM ST 34km 18dB + 2 x BT RJ-45
9503B-2-1pt	9153B-2-1pt	9503N-2-1pt	9153N-2-1pt	1310 / 1310 SM SC 34km 18dB + 1 x BT RJ-45
9503B-2-2pt	9153B-2-2pt	9503N-2-2pt	9153N-2-2pt	1310 / 1310 SM SC 34km 18dB + 2 x BT RJ-45
9503B-3-1pt	9153B-3-1pt	9503N-3-1pt	9153N-3-1pt	1550 / 1550 SM SC 80km 18dB + 1 x BT RJ-45
9503B-3-2pt	9153B-3-2pt	9503N-3-2pt	9153N-3-2pt	1550 / 1550 SM SC 80km 18dB + 2 x BT RJ-45
9503B-4-1pt	9153B-4-1pt	9503N-4-1pt	9153N-4-1pt	1550 / 1550 SM SC 110km 24dB + 1 x BT RJ-45
9503B-4-2pt	9153B-4-2pt	9503N-4-2pt	9153N-4-2pt	1550 / 1550 SM SC 110km 24dB + 2 x BT RJ-45
9503B-5-1pt	9153B-5-1pt	9503N-5-1pt	9153N-5-1pt	1550 / 1550 SM SC 140km 30dB + 1 x BT RJ-45
9503B-5-2pt	9153B-5-2pt	9503N-5-2pt	9153N-5-2pt	1550 / 1550 SM SC 140km 30dB + 2 x BT RJ-45
9510B-0-1pt	9160B-0-1pt	9510N-0-1pt	9160N-0-1pt	1310 / 1550 MM-SF SC 550m 9dB + 1 x BT RJ-45
9510B-0-2pt	9160B-0-2pt	9510N-0-2pt	9160N-0-2pt	1310 / 1550 MM-SF SC 550m 9dB + 2 x BT RJ-45
9511B-0-1pt	9161B-0-1pt	9511N-0-1pt	9161N-0-1pt	1550 / 1310 MM-SF SC 550m 9dB + 1 x BT RJ-45
9511B-0-2pt	9161B-0-2pt	9511N-0-2pt	9161N-0-2pt	1550 / 1310 MM-SF SC 550m 9dB + 2 x BT RJ-45
9510B-1-1pt	9160B-1-1pt	9510N-1-1pt	9160N-1-1pt	1310 / 1550 SM-SF SC 20km 10.5dB + 1 x BT RJ-45
9510B-1-2pt	9160B-1-2pt	9510N-1-2pt	9160N-1-2pt	1310 / 1550 SM-SF SC 20km 10.5dB + 2 x BT RJ-45
9511B-1-1pt	9161B-1-1pt	9511N-1-1pt	9161N-1-1pt	1550 / 1310 SM-SF SC 20km 10.5dB + 1 x BT RJ-45
9511B-1-2pt	9161B-1-2pt	9511N-1-2pt	9161N-1-2pt	1550 / 1310 SM-SF SC 20km 10.5dB + 2 x BT RJ-45
9510B-2-1pt	9160B-2-1pt	9510N-2-1pt	9160N-2-1pt	1310 / 1550 SM-SF SC 40km 17dB + 1 x BT RJ-45
9510B-2-2pt	9160B-2-2pt	9510N-2-2pt	9160N-2-2pt	1310 / 1550 SM-SF SC 40km 17dB + 2 x BT RJ-45
9511B-2-1pt	9161B-2-1pt	9511N-2-1pt	9161N-2-1pt	1550 / 1310 SM-SF SC 40km 17dB + 1 x BT RJ-45
9511B-2-2pt	9161B-2-2pt	9511N-2-2pt	9161N-2-2pt	1550 / 1310 SM-SF SC 40km 17dB + 2 x BT RJ-45
9519B-0-1pt	9169B-0-1pt	9519N-0-1pt	9169N-0-1pt	1 x SFP + 1 x BT RJ-45
9519B-0-2pt	9169B-0-2pt	9519N-0-2pt	9169N-0-2pt	1 x SFP + 2 x BT RJ-45
9519B-1-1pt	9169B-1-1pt	9519N-1-1pt	9169N-1-1pt	2 x SFP + 1 x BT RJ-45
9519B-1-2pt	9169B-1-2pt	9519N-1-2pt	9169N-1-2pt	2 x SFP + 2 x BT RJ-45

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