

Omnitron Systems Media Converters

Comparison Guide for Media Converter Products



Omnitron Systems Product Families

Overview

iConverter® Managed and Unmanaged Media Converters

iConverter managed and unmanaged copper-to-fiber and fiber-to-fiber media converters, NIDs, TDM and xWDM Multiplexers are part of the iConverter Multi-Service Platform. iConverter media converters support a wide variety of network protocols and cabling types, and are available as chassis plug-in modules and standalone units. iConverter modules can be managed with [NetOutlook® SNMP management software](#).



FlexPoint® Unmanaged Media Converters

FlexPoint unmanaged media converters provide copper-to-fiber and fiber-to-fiber network connectivity. The self-contained converter modules support Ethernet, serial and T1 protocols, and can be used as standalone units, rack-mounted or installed in a powered chassis.



miConverter® Miniature Media Converters

miConverter miniature Ethernet media converters provide cost-effective copper-to-fiber connectivity solutions. These compact unmanaged media converters can be powered by an external AC power supply or a USB port for fiber-to-the-desktop/laptop deployments. Models available with PD powering option can be powered with Power over Ethernet (PoE) when connected to [PoE media converter or switches](#).



OmniConverter® Single Pair Ethernet Converters

The OmniConverter Single Pair Ethernet converters are IEEE 802.3cg compliant products that 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.



OmniConverter® 10G Multi-Gigabit/Multi-Rate Converters

OmniConverter 10G are multi-gigabit/multi-rate 10M, 100M, 1G, 2.5G, 5G, 10G unmanaged media converters. Models support one 1/10G SFP/SFP+ uplink port and one or two multi-gigabit/multi-rate RJ-45 copper ports.



FlexSwitch™ 10G Ethernet Switch

The FlexSwitch 2X4GT is a six-port unmanaged Ethernet switch with four 10/100/1000 RJ-45 ports, one 10G SFP+ or XFP fiber port, and one RJ-45 port that auto-negotiates to Gigabit or 10G.



Product Comparison

		Copper-to-Fiber Modules											
		Models	Model #	Managed	Number of Fiber Ports	Number of RJ-45 Ports	Fiber Data Rates	RJ-45 Data Rates	Plug-in	Standalone	DC Terminal	AC Connector	Temp
10G Ethernet	iConverter 10GXT	8580		1 SFP/SFP+ 1 XFP	1	1G/10G 10G	10/100/1000		✓		2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C
	iConverter XGT+	8589N	✓ w/NMM2	1 SFP+ or 1 XFP	1	10G	10G	✓	✓	2-Pin	Barrel	0 to 50°C	
	OmniConverter 10/S	9190		1 SFP/SFP+	1 or 2	Copper 10/100/1000/ 2.5G/5G/10G Fiber 1G or 10G	Multi-Gigabit Multi-Rate 10/100/1000/ 2.5G/5G/10G		✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	FlexSwitch 2X4GT	6900		1 SFP/SFP+ 1 XFP	5	1G/10G 10G	1 1000/10G 4 10/100/1000		✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
1G Ethernet (1000)	iConverter GxAN	8500N - 8519N	✓ w/NMM2	1 SFP or 1 Fixed Fiber	1	1G	1000	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	FlexPoint Gx	4370 - 4377 4670 - 4677		1 Fixed Fiber	1	1G	1000		✓	Molex	Barrel	0 to 50°C -40 to 60°C	
	miConverter Gx	1200 - 1219		1 SFP or 1 Fixed Fiber	1	1G	1000		✓	2-Pin or Micro-B	Barrel	0 to 50°C -40 to 60°C	
1G Ethernet (10/100/1000)	iConverter GX/T2	8520N - 8539N	✓ w/NMM2	1 SFP 1 Fixed Fiber	1	100/1G 1G	10/100/1000	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter 2GX/T	8484	✓ w/NMM2	2 SFP	2	100/1G	10/100/1000	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C	
	iConverter GX/TM2	8920N - 8939N	✓ Integrated	1 SFP or 1 Fixed Fiber	1	1G	10/100/1000	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C	
	FlexPoint GX/T	4700 - 4719		1 SFP 1 Fixed Fiber	1	100/1G 1G	10/100/1000		✓	Molex	Barrel	0 to 50°C -40 to 60°C	
	miConverter GX/T	1220 - 1239		1 SFP 1 Fixed Fiber	1	100/1G 1G	10/100/1000		✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C -40 to 85°C	
	miConverter GX/T PoE/D	1220D - 1239D		1 SFP 1 Fixed Fiber	1	100/1G 1G	10/100/1000		✓	2-Pin or PoE	Barrel	0 to 50°C -40 to 60°C	
	miConverter S/GXT	1620 - 1639		1 SFP or 1 Fixed Fiber	1	1G	10/100/1000		✓	Micro-B		0 to 50°C -40 to 60°C	
	miConverter S/GXT+	1660 - 1679		1 SFP or 1 Fixed Fiber	1	1G	10/100/1000		✓	Micro-B		0 to 50°C -40 to 60°C -40 to 75°C	

- ✓ w/NMM2: Plug-in modules must be installed in a chassis with an NMM2 module in order to provide management capabilities. Standalone modules are not managed.
- ✓ Integrated: Plug-in and standalone modules can be directly managed without an NMM2 module. Management is available using SNMP, Telnet or serial console.

Temp: 0 to 50°C is the commercial operating temperature range, -40 to 60°C is the wide operating temperature range
-40 to 75°C is the extended operating temperature range, -40 to 85°C is the industrial operating temperature range

Consult the individual data sheets for more details on the modules.

Product Comparison

Copper-to-Fiber Modules												
	Models	Model #	Managed	Number of Fiber Ports	Number of RJ-45 Ports	Uplink Data Rates	RJ-45 Data Rates	Plug-in	Standalone	DC Connector	AC Connector	Temp
Fast Ethernet (100)	iConverter 100Fx/Tx	8360 - 8371	✓ w/NMM2	1 Fixed Fiber	1	100	100	✓				0 to 50°C -40 to 60°C -40 to 75°C
	iConverter 2Fx/Tx Redundant	8420 - 8431	✓ w/NMM2	2 Fixed Fiber	1	100	100	✓				0 to 50°C -40 to 60°C
	iConverter 2Tx/Tx Redundant	8400	✓ w/NMM2		3		100	✓				0 to 50°C -40 to 60°C
	FlexPoint 100Fx/Tx	4332 - 4353		1 Fixed Fiber	1	100	100		✓	Molex	Barrel	0 to 50°C -40 to 60°C
Fast Ethernet (10/100)	iConverter 10/100	8380 - 8391	✓ w/NMM2	1 Fixed Fiber	1	100	10/100	✓				0 to 50°C -40 to 60°C
	iConverter 10/100M2	8900N - 8919N	✓ Integrated	1 SFP or 1 Fixed Fiber	1	100	10/100	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C
	FlexPoint 10/100	4340 - 4359		1 SFP or 1 Fixed Fiber	1	100	10/100		✓	Molex or 2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C
	miConverter 10/100	1100 - 1111		1 Fixed Fiber	1	100	10/100		✓		Barrel	0 to 50°C -40 to 60°C
	miConverter 10/100 Plus	1120 - 1131		1 Fixed Fiber	1	100	10/100		✓		Barrel	0 to 50°C -40 to 60°C
	miConverter 10/100 PoE/D	1100D - 1119D		1 SFP or 1 Fixed Fiber	1	100	10/100		✓	2-Pin or PoE	Barrel	0 to 50°C -40 to 60°C -40 to 75°C -40 to 85°C
	miConverter S/FXT	1600 - 1619		1 SFP or 1 Fixed Fiber	1	100	10/100/1000		✓	Micro-B		
10M Ethernet	iConverter 10FL/T	8300 - 8311	✓ w/NMM2	1 Fixed Fiber	1	10	10	✓				0 to 50°C -40 to 60°C
	iConverter 10T/2	8340	✓ w/NMM2	1 BNC RG-58U Coax	1	10	10	✓				0 to 50°C -40 to 60°C
	OmniConverter 10T/T1L	2010										
	OmniConverter 10T/T1L											
	FlexPoint 10FL/T	4300 - 4307		1 Fixed Fiber	1	10	10		✓	Molex	Barrel	0 to 50°C
	FlexPoint 10T/2	4320		1 BNC RG-58U Coax	1	10	10		✓	Molex	Barrel	0 to 50°C -40 to 60°C
	FlexPoint 10AUI/T	4321		1 DB-15 AUI	1	10	10		✓	Molex AUI	Barrel	0 to 50°C -40 to 60°C

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Product Comparison

		Fiber-to-Fiber Modules									
		Models	Model #	Managed	Number of Fiber Ports	Fiber Data Rates	Plug-in	Standalone	DC Terminal	AC Connector	Temp
10G Ethernet	iConverter XG	8599P	✓ w/NMM2	2 SFP+ or 1 SFP+ / 1 XFP or 2 XFP	6G to 11.32G	✓	✓	2-Pin	Barrel	0 to 50°C	
	iConverter XG+	8599R	✓ w/NMM2	2 SFP+ or 1 SFP+ / 1 XFP or 2 XFP	6G to 11.32G	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C	
1G Ethernet (1000)	iConverter xFF	8699	✓ w/NMM2	2 SFP	1M to 8.50G	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter 1000FF	8642 - 8653	✓ w/NMM2	2 Fixed Fiber	1G	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter GX/X	8542 - 8557	✓ w/NMM2	2 Fixed Fiber	1G	✓				0 to 50°C -40 to 60°C	
	iConverter 2GXM2	8999N	✓ Integrated	2 SFP	1G	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C	
	FlexPoint 1000FF	4432 - 4441		2 Fixed Fiber	500M to 1.25G		✓	Molex	Barrel	0 to 50°C	
Fast Ethernet (100)	iConverter xFF	8699	✓ w/NMM2	2 SFP	1M to 8.50G	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter 2Fx	8440 - 8451	✓ w/NMM2	2 Fixed Fiber	100	✓				0 to 50°C -40 to 60°C	
	iConverter 100FF	8620 - 8637	✓ w/NMM2	2 Fixed Fiber	1M to 100M	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter GX/F	8562 - 8567	✓ w/NMM2	2 Fixed Fiber	100 1G	✓				0 to 50°C -40 to 60°C	
	iConverter 2FXM2	8959N	✓ Integrated	2 SFP	100	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C	
	FlexPoint 100FF	4332 - 4353		2 Fixed Fiber	100		✓	Molex	Barrel	0 to 50°C -40 to 60°C	
SONET OC-12	iConverter xFF	8699	✓ w/NMM2	2 SFP	1M to 8.50G	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter OC12FF	8681 - 8693	✓ w/NMM2	2 Fixed Fiber	622M	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	FlexPoint OC12FF	4461 - 4469		2 Fixed Fiber	622M		✓	Molex	Barrel	0 to 50°C	
SONET OC-3	iConverter xFF	8699	✓ w/NMM2	2 SFP	1M to 8.50G	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter OC3FF	8660 - 8677	✓ w/NMM2	2 Fixed Fiber	1M to 155M	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	FlexPoint OC3FF	4450 - 4459 4650 - 4651		2 Fixed Fiber	1M to 155M		✓	Molex	Barrel	0 to 50°C -40 to 60°C	

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Product Comparison

Specialty Modules													
	Models	Model #	Managed	Number of Fiber Ports	Number of RJ-45 Ports	Fiber Data Rates	RJ-45 Data Rates	Plug-in	Standalone	DC Terminal	AC Connector	Temp	
10M	OmniConverter 10T/T1L	2010		-	1 RJ-45 and 1 Terminal or IEC	-	10M		✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C	
	OmniConverter 10TPS/T1L	2010		-	1 RJ-45 PoE+ and 1 Terminal or IEC	-	10M		✓	2-Pin	Barrel	0 to 50°C -40 to 60°C -40 to 75°C	
T1/E1	iConverter T1/E1	8700 - 8719	✓ w/NMM2	1 SFP or 1 Fixed Fiber	1	100	T1 1.544M E1 2.048M	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
	iConverter T1/E1 MUX 2-Module	8820 - 8839		1 SFP or 1 Fixed Fiber	1 Ethernet 4 T1/E1	100	Ethernet 10/100 T1 1.544M E1 2.048M		✓	3-Pin	IEC 320 Socket	0 to 50°C -40 to 60°C	
	iConverter T1/E1 MUX/M 2-Module	8820N - 8839N	✓ Integrated	1 SFP or 1 Fixed Fiber	1 Ethernet 4 T1/E1	1000	Ethernet 10/100/100 T1 1.544M E1 2.048M		✓	3-Pin	IEC 320 Socket	0 to 50°C -40 to 60°C	
	iConverter T1/E1 MUX/M 5-Module	2420 - 2439	✓ Integrated	1 SFP or 1 Fixed Fiber	1 Ethernet 4 to 16 T1/E1	1000	Ethernet 10/100/100 T1 1.544M E1 2.048M		✓	3-Pin	IEC 320 Socket	0 to 50°C -40 to 60°C	
	iConverter T1/E1 MUX Modular	TM3 2421 - 2499 4xT1/E1 8485 - 8486	✓ Integrated	1 SFP or 1 Fixed Fiber	1 Ethernet 4 T1/E1	1000	Ethernet 10/100/100 T1 1.544M E1 2.048M	✓					0 to 50°C -40 to 60°C
	FlexPoint T1/E1	4470 - 4474			1 Fixed Fiber	1	100	T1 1.544M E1 2.048M		✓	Molex	Barrel	0 to 50°C
T3/E3	iConverter T3/E3	8740 - 8759	✓ w/NMM2	1 SFP or 1 Fixed Fiber	1	100	T3 44.736M E3 34.368M	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	
RS-232	iConverter RS232	8760 - 8771	✓ w/NMM2	1 Fixed Fiber	1 DB-9 or 1 Terminal	100	110 to 921,600 bps	✓				0 to 50°C -40 to 60°C	
	FlexPoint RS232	4480 - 4489		1 Fixed Fiber	1 DB-9	100	110 to 115,200 bps		✓	Molex	Barrel	0 to 50°C	
RS-422 / 485	iConverter RS422/485	8780 - 8791	✓ w/NMM2	1 Fixed Fiber	1 DB-9 or 1 Terminal	100	110 to 921,600 bps	✓				0 to 50°C -40 to 60°C	
X.21 / RS-530	iConverter X21	8840 - 8859	✓ w/NMM2	1 SFP or 1 Fixed Fiber	High-Density DB-15	100	up to 8.192M	✓	✓	2-Pin	Barrel	0 to 50°C -40 to 60°C	

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Mounting Options

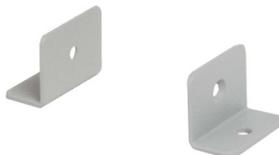
Wall Mount Bracket for iConverter and FlexPoint

The Wall Mount Bracket was designed to attach one iConverter 2-Module 4xT1/E1 MUX (8249-0) or FlexPoint module (4380) to a wall, backboard or other flat surface.



Wall Mount for miConverter

The Wall Mounting kit (1091-0) is installed on the side of the miConverter modules and allows the module to be attached to a wall, backboard or other flat surface.



Wall Mount Bracket for miConverter S-Series

The Wall Mounting Bracket (1691-0) is installed on the top of the miConverter S-Series modules and allows the module to be attached to a wall, backboard or other flat surface.



Rack Mount Shelf for iConverter and OmniConverter

The 1U 19" rack mount shelf accommodates iConverter standalone media converters (x4), iConverter 4xT1/E1 MUX (x2), iConverter GM4 5-Port (x3) or OmniConverter 10G/S (x3).



Rack Mount Shelf for FlexPoint

The rack-mounting shelf (4392) holds up to five standalone FlexPoint media converter modules. Each converter is individually powered in order to provide a low-cost solution in a compact installation space.



Mounting Options

DIN-Rail Mounting Clip

The [DIN-Rail mounting clips](#) (8251-0) provides DIN Rail (35mm x 7.5mm) capabilities for 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.



DIN-Rail Mounting Bracket for iConverter and FlexPoint

The [DIN-Rail mounting bracket](#) (8250-0) provides DIN Rail (35mm x 7.5mm) capabilities for iConverter and FlexPoint standalone media converters. This kit contains all the necessary components to provide DIN Rail mounting for several different mounting orientations.



DIN-Rail Mounting Clip for miConverter

The [DIN Rail mounting clip](#) (8252-0) provides DIN Rail (35mm x 7.5mm) capabilities for miConverter modules. The DIN Rail mounting clip attaches to the side of the module.



Chassis Options for iConverter

The [chassis options](#) for iConverter modules include a 19-Module and 5-Module AC or DC redundant power chassis and a 2-Module and 1-Module AC or DC powered chassis.

Chassis Options for FlexPoint

The [chassis options](#) for FlexPoint modules include a 14-Module AC or DC redundant powered chassis or 5-Module shelf.

Chassis Options for miConverter

The [chassis options](#) for miConverter modules is a 18-Module AC or DC chassis.

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