

OmniConverter® 10G/S

Multi-Gigabit/Multi-Rate 10M, 100M, 1G, 2.5G, 5G, 10G Media Converters

The OmniConverter 10G/S are unmanaged 10G Ethernet media converters featuring one 1/10G SFP/SFP+ uplink port and one or two multi-gigabit/multi-rate RJ-45 user ports.

The RJ-45 user ports support multi-gigabit/multi-rate speeds of 10Mbps, 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10Gbps, supporting frame sizes up to 10,240 bytes.

The two RJ-45 port models support Directed Switch mode, which directs multicast traffic (such as video) only to the appropriate uplink port, preventing the multicast video traffic from flooding other network ports.

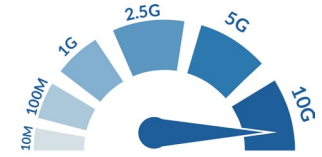
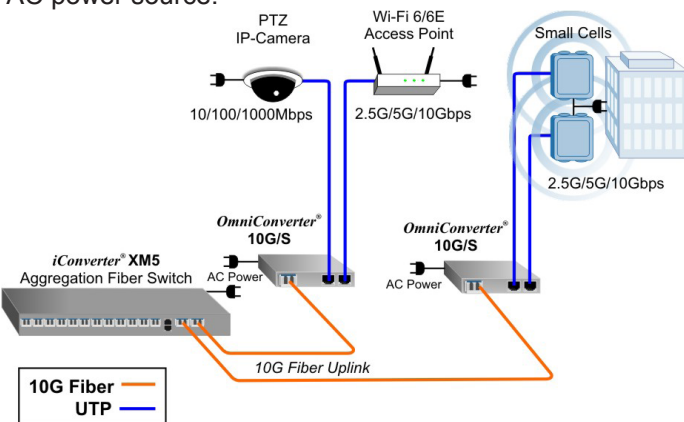
The 10G/S feature a Small Form Pluggable (SFP) transceiver receptacle port supporting a variety of copper and fiber transceivers. It supports 10/100/1000BASE-T, 1000BASE-T, 100M/1G/2.5G/5G/10GBASE-T multi-gigabit copper transceivers and 1G and 10G multimode or single-mode fiber, dual or single-fiber transceivers in standard, CWDM and DWDM wavelengths.

The media converters can be tabletop mounted, wall mounted, or DIN-rail mounted using an optional DIN-rail mounting clip (8251-0). They can also be mounted on a 1U 19" rack-mount shelf. They are available with DC input power via terminal connectors or external 100 to 240VAC power adapter.

APPLICATION

Security and Small Cell Application

In this combined application, each OmniConverter 10G/S media converter connects to an iConverter® XM5 10G fiber switch. The OmniConverter media converters are providing high speed connectivity to small cell devices that require up to 10Gbps of bandwidth and IP surveillance cameras and Wi-Fi 6/6E Access Points. All devices are located near an AC power source.



KEY FEATURES

- Unmanaged 10G multi-gigabit/multi-rate media converters
- Directed Switch mode prevents flooding of multicast video traffic
- One 1/10G SFP/SFP+ standard/CWDM/DWDM transceiver uplink port
- Uplink port supports copper and fiber SFP/SFP+ transceivers
- RJ-45 multi-gigabit/multi-rate ports support speeds of 10Mbps, 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10Gbps
- Multiple port configurations:
 - 2 Port Device: 1 SFP/SFP+ + 1 RJ-45
 - 3 Port Device: 1 SFP/SFP+ + 2 RJ-45
- AC to DC Power Adapter or 2-Pin DC terminal
- Wall, Rack and DIN-rail mountable
- 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 24/7/365 Technical Support

SPECIFICATIONS

Description	OmniConverter 10G/S Multi-gigabit/multi-rate copper to 1/10G SFP Media Converter	
Standard Compliances	IEEE 802.3, 802.3bz	
Regulatory Compliances *Pending	<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, UKCA</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: 3 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 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: 3 Vrms, IEC 61000-4-8 (Magnetic Field) 30 A/m, IEC 61000-4-11 (Voltage Dips, interrupts)</p> <p>IP Rating: IP20 Protection ACT: TAA, BAA, NDAA</p>	
Environmental	RoHS, WEEE, REACH	
Frame Size	Up to 10,240 bytes	
Port Types	<p>Copper: 10/100/1000BASE-T, 2.5GBASE-T/5GBASE-T/10GBASE-T (RJ-45)</p> <p>SFP/SFP+: 10GBASE-X Fiber Transceivers, 10GBASE-T Copper Transceivers 1000BASE-X Fiber Transceivers, 1000BASE-T Copper Transceivers 10/100/1000BASE-T SGMII Copper Transceivers 10/100/1000/2.5G/5G/10GBASE-T Multi-rate Copper Transceivers</p>	
Cable Types	<p>Copper: Twisted-pair cable up to 100 meters 10BASE-T: 4-pair UTP Cat 3, 4, 5, 5e, 6, 6A 100BASE-TX: 4-pair UTP Cat 5, 5e, 6, 6A 1G/2.5G: 4-pair UTP Cat 5e, 6, 6A, 7 5G: 4-pair UTP Cat 6, 6A, 7 10G: 4-pair UTP Cat 6A, 7</p> <p>Fiber: Multimode: 50/125, 62.5/125µm Single-mode: 9/125µm</p>	
AC Power Requirements (Models with AC/DC Adapter)	1 RJ-45 Port 100 - 240VAC/50 - 60Hz; 0.1A @ 120VAC (typical) 2.5 mm Barrel Connector	2 RJ-45 Ports 100 - 240VAC/50 - 60Hz; 0.14A @ 120VAC (typical) 2.5 mm Barrel Connector
DC Power Requirements (Models with DC Terminal)	1 RJ-45 Port +12 to +57VDC; 0.19A @ 56VDC 2 Pin Terminal	2 RJ-45 Ports +12 to +57VDC; 0.25A @ 56VDC 2 Pin Terminal
Dimensions W x D x H	4.8" x 6.0" x 1.75" (121.92 mm x 152.4 mm x 44.45 mm)	
Weight	Module Only: 1.1 lbs. (498.9 grams) Module w/ Adapter: 1.6 lbs. (725.7 grams)	
Operating Temperature	Commercial: 0 to 50°C Wide: -40 to 60°C (-20°C AC cold start) Storage: -40 to 80°C	
Humidity	5 to 95% (non-condensing)	
Altitude	-100m to 4,000m	
MTBF (hours)	Module Only: 271,000 AC/DC Adapter: 100,000	
Warranty	Lifetime warranty with registration and 24/7/365 free Technical Support	

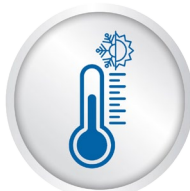
ORDERING INFORMATION

OmniConverter 10G/S Models	
Model Number	Description
9190-0-11-pt	OmniConverter 10G/S 1 x SFP/SFP+ uplink port and 1 x RJ-45 user ports
9190-0-12-pt	OmniConverter 10G/S 1 x SFP/SFP+ uplink port and 2 x RJ-45 user ports
Power Options (p):	
1 = External AC/DC Adapter, 100 - 240 VAC included, with US Power Cord	8 = External AC/DC Adapter, 100 - 240 VAC included, with Japanese Power Cord
2 = External AC/DC Adapter, 100 - 240 VAC included, No Power Cord	9 = Direct DC 2 pin terminal connector, no AC/DC power adapter
Operating Temperature Options (t):	
<leave blank> = Commercial temperature (0 to 50°C)	W = Wide temperature (-40 to 60°C)
Contact Omnitron for other fiber options. Order the appropriate SFPs separately. Visit the Omnitron Optical Transceivers web page.	

For PoE applications, see the [OmniConverter 10GPoE+/S](#) and [10GPoEBT Multi-Gigabit/Multi-Rate 10M, 100M, 1G, 2.5G, 5G, 10G PoE Media Converters](#).

ACCESSORIES

Accessories			
Model Number	Description	Model Number	Description
8251-0	DIN-Rail Mounting Clip	8260-0	19" rack mount shelf (up to 2 switches)



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