

iConverter® 10GXT

10/100/1000BASE-T to 1000/10G Fiber Media Converter

The iConverter 10GXT is a 10/100/1000BASE-T copper to 1000BASE-X or 10GBASE-R fiber media converter, and is available as a compact, unmanaged standalone unit. The iConverter 10GXT supports jumbo frames up to 10,056 bytes.

The 10GXT is used to convert 10/100/1000 copper to Gigabit Ethernet fiber or 10 Gigabit Ethernet fiber. The 10GXT supports 1000BASE-X or 10GBASE-R Small Form Pluggable (SFP/SFP+) transceivers or 10GBASE-X XFP transceivers. SFP/SFP+/XFP transceivers enable adaptability to different fiber types and distances, and support Coarse Wave Division Multiplexing (CWDM) and Dense Wave Division Multiplexing (DWDM) technologies to increase the bandwidth capacity of fiber infrastructure.

The RJ-45 port supports 10/100/1000 and Half/Full-Duplex auto-negotiation with hardware manual override controls.

The 10GXT features user-selectable Link Propagate and Link Segment modes to facilitate quick fault detection, isolation and reporting.

The 10GXT is available as a standalone unit with or without integrated mounting brackets. The 10GXT is DC powered and can be ordered with an external AC to DC power adapter, or 2-pin terminal connector for direct DC voltages up to 16 VDC. The 10GXT can be rack mounted (8260-0) or DIN-Rail mounted using the optional DIN-Rail mounting clips (8251-0).

APPLICATION

In this application example, 10GXT media converters are deployed in a star topology network with fiber links distributed from a central location.

At Building A, a 10G fiber switch is providing multiple fiber links to the remote buildings.

At Buildings B and C, iConverter 10GXT media converters provide 10/100/1000 copper connectivity to existing copper Ethernet switches in each building.

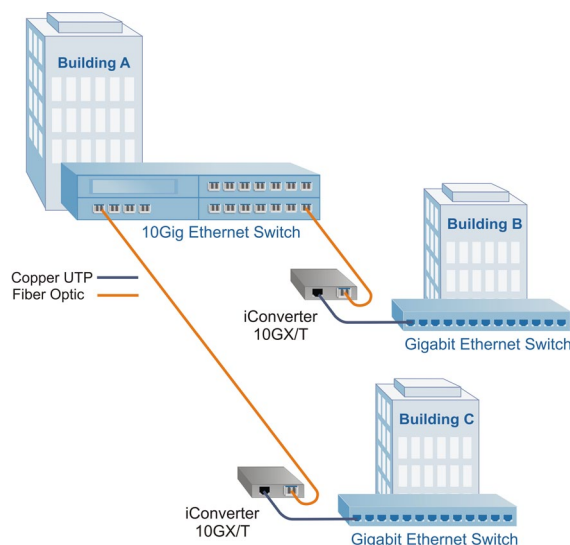
The iConverter 10GXT supports Link Modes used to provide network notification of fiber and copper faults. Link failures on any port are propagated to managed network switches, notifying network administrators of link failure.



XFP/SFPs not included

KEY FEATURES

- 10/100/1000 copper to 1G/10G Fiber Media Converter
- Conforms to IEEE 802.3u, 802.3ab, 802.3z and 802.3ae specifications
- Supports 1G SFP, 10G SFP+ and 10G XFP transceivers
- Supports dual fiber and single-fiber SFP/SFP+ and XFP transceivers for standard, CWDM or DWDM wavelengths
- RJ-45 port supports 10/100/1000 and Half/Full-Duplex auto-negotiation and MDI/MDIX auto-crossover
- 10,056 byte jumbo frames
- User-selectable link fault detection modes facilitate quick fault detection, isolation and reporting
- TAA, BAA and NDAA compliant, and Made in the USA
- Commercial (0 to 50°C), wide (-40 to 60°C) and extended (-40 to 75°C) temperature ranges



SPECIFICATIONS

Description	iConverter 10GXT 10/100/1000BASE-T Copper to 1G/10G Fiber Media Converter	
Standard Compliances	IEEE 802.3, 802.3u, 802.3ab, 802.3z and 802.3ae	
Regulatory Compliances*	Safety: UL, cUL, CE, UKCA EMI: FCC Class A ACT: TAA, BAA, NDA	
Environmental	RoHS, WEEE, REACH	
Frame Size	Up to 10,056 bytes	
Port Types	Copper: 10/100/1000BASE-T (RJ-45) Fiber: 1000BASE-X (SFP) 10GBASE-X (SFP+, XFP) Direct Attach Cable (SFP+)	
Cable Types	Copper: EIA/TIA 568A/B, Cat 5 UTP and higher Fiber: Multimode: 50/125µm, 62.5/125µm Single-mode: 9/125µm Direct Attach Cable: 1 meter (7499-DC-1) Direct Attach Cable: 3 meter (7499-DC-3)	

*Compliances pending

AC Power Requirements	AC Adapter: (US)	100 - 240VAC/50 - 60Hz 0.19A @ 120VAC (max)
	AC Adapter: (Universal)	100 - 240VAC/50 - 60Hz 0.19A @ 120VAC (max)
DC Power Requirements	DC Input: (Terminal Block)	9 - 16VDC, 2.5A max 2-Pin Terminal (non-isolated)
	DC Input: (AC Adapter)	9 - 16VDC, 2.5A max 2.5mm Barrel Connector
Dimensions W x D x H	w/o Brackets:	3.06" x 4.8" x 1.3" (77.7 mm x 121.9 mm x 33.0 mm)
	w/ Brackets:	3.8" x 4.8" x 1.3" (96.7 mm x 121.9 mm x 33.0 mm)
Weight	Standalone w/o Adapter:	0.79 lb. (358 grams)
	Standalone w Adapter:	1.21 lbs. (549 grams)
Temperature	Commercial:	0 to 50°C
	Wide:	-40 to 60°C
	Extended:	-40 to 75°C
	Storage:	-40 to 80°C
Humidity	5 to 95% (non-condensing)	
Altitude	-100m to 4,000m	
MTBF (hours)	330,000	
Warranty	Lifetime warranty with 24/7/365 free Technical Support	

ORDERING INFORMATION

Step 1: Choose a Base Part Number (xxxx-x-pt)

Model Number	Description
8580-0-pt	10/100/1000BASE-T Copper to SFP/SFP+ Receptacle
8580-1-pt	10/100/1000BASE-T Copper to XFP Receptacle

Order the appropriate SFPs separately. [Visit the Omnitron Optical Transceivers web page.](#)

Step 2: Choose a Power Option (xxxx-x-pt)

Models without Integrated Mounting Brackets
A = Barrel Connector and AC/DC Power Adapter, 100-240VAC, 50-60Hz, with US power cord without integrated mounting brackets
B = Barrel Connector and Universal AC/DC Adapter, 100-240 VAC, 50-60Hz, No Power Cord, without integrated mounting brackets
C = Direct DC input, 2 pin terminal connector, no AC/DC power adapter, without integrated mounting brackets
G = No AC/DC Adapter provided, without mounting brackets
I = Barrel Connector and AC/DC Adapter, 100-240VAC, 50-60Hz, with Japanese Power Cord, without mounting brackets
Models with Integrated Mounting Brackets
D = Barrel Connector and AC/DC Power Adapter, 100-240VAC, 50-60Hz, with US power cord with integrated mounting brackets
E = Barrel Connector and Universal AC/DC Adapter, 100-240 VAC, 50-60Hz, No Power Cord, with integrated mounting brackets
F = Direct DC input, 2 pin terminal connector, no AC/DC power adapter, with integrated mounting brackets
H = No AC/DC Adapter provided, with mounting brackets
J = Barrel Connector and AC/DC Adapter, 100-240VAC, 50-60Hz, with Japanese Power Cord, with mounting brackets

Step 3: Choose an Operating Temperature Range (xxxx-x-pt)

<leave blank> = Commercial temperature (0 to 50°C)
W = Wide temperature (-40 to 60°C)
Z = Wide temperature (-40 to 75°C)

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