

iConverter® 10GXX **1G to 10G Standalone Media Converter**

The iConverter 10GXX is a 100M/1G SFP fiber to 1G/10G SFP/SFP+ rate-switching fiber media converter. The 10GXX access port supports 100BASE-X or 1000BASE-X fiber transceivers and the uplink port supports 1000BASE-X or 10GBASE-R fiber transceivers.

The 100M/1G SFP transceiver port supports auto-negotiation.

The iConverter 10GXX support frame sizes from 64 bytes to 10,240 bytes and support a variety of Link Modes to facilitate quick fault detection, isolation and reporting.

The media converters support a variety of copper and fiber SFP transceivers.

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

The access port supports 10/100/1000BASE-T and 1000BASE-T copper transceivers, and 100M and 1G multimode or single-mode fiber, dual or single-fiber transceivers in standard, CWDM and DWDM wavelengths.

The compact standalone 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 connector or an external 100 to 240VAC power adapter.



SFPs not included

KEY FEATURES

- 10GXX is a 100M/1G fiber to 1G/10G fiber media converters
- Conforms to IEEE 802.3u, 802.3ab, 802.3z and 802.3ae specifications
- The uplink port supports 1G SFP or 10G SFP+ fiber transceivers, and 10/100/1000BASE-T and 1000BASE-T copper transceivers
- The access port support 100M or 1G SFP fiber transceivers, and 10/100/1000BASE-T, 1000BASE-T and multi-rate multi-gigabit copper transceivers
- Supports dual fiber and single-fiber SFP/SFP+ transceivers for standard, CWDM or DWDM wavelengths
- 10,240 byte jumbo frames
- User-selectable link fault detection modes facilitate quick fault detection, isolation and reporting
- Automatic Link Recovery
- Commercial (0 to 50°C), wide (-40 to 60°C) and extended (-40 to 75°C) temperature ranges
- TAA, BAA and NDAA Compliant, and Made in the USA
- Lifetime warranty and free 24/7/365 Technical Support

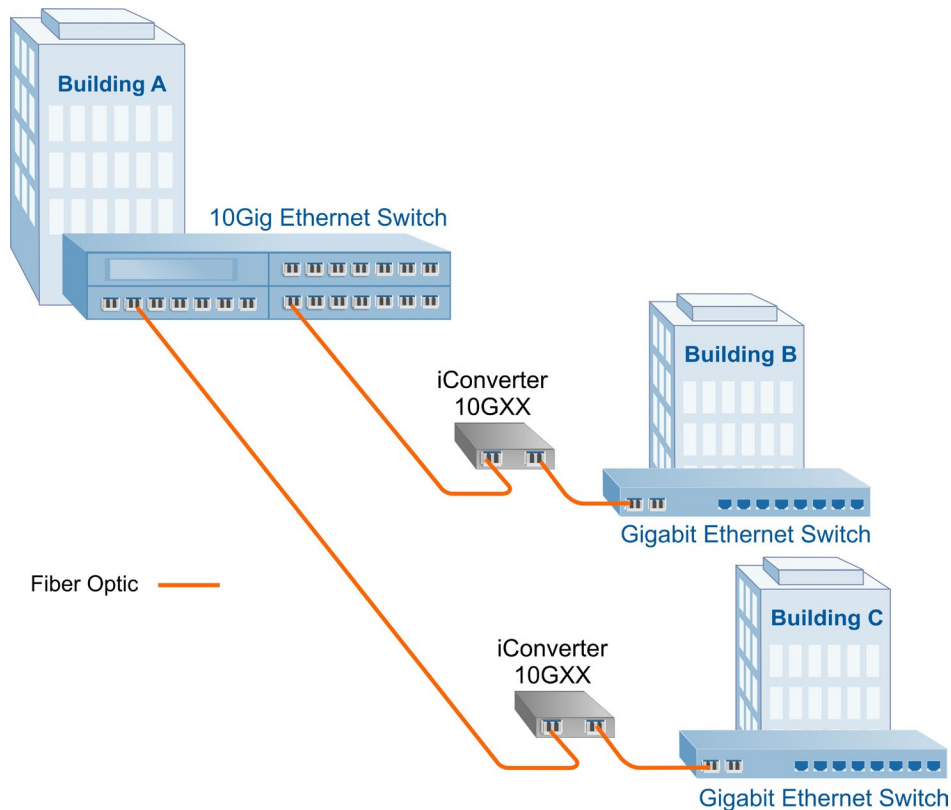
APPLICATION

In this application example, the 10GXX 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 Building B and C, the iConverter 10GXX media converters provide a 1G fiber connection to a gigabit Ethernet switch in the building.

The media converters support Link Modes used to provide network notification of fiber faults. Link failures on any port are propagated to managed network switches, notifying network administrators of link failure.



SPECIFICATIONS

Description	iConverter 10GXX 100M/1G SFP Fiber to 1G/10G SFP/SFP+ Fiber Media Converter
Standard Compliances	IEEE 802.3, 802.3u, 802.3ab, 802.3z and 802.3ae
Regulatory Compliances *Pending	Safety: UL/IEC 62368-1, UL/IEC 60950-1/ CUL CSA C22.2 No. 60950; EN 60950-1:2006 CE Mark, UKCA EMI: FCC 47CFR, Part 15 Class A, AS/NZS 3548, AS/NZS 4417.1 and AS/NZS 4417.2, ICES-003 Issue 3, EN 55032/CISPR 22 and EN55035, EN61000-3-2, VCCI V3/2001.04 (CISPR 22A:1997, Class A) EMS: IEC 61000-4-2 ESD: Contact Discharge: +/- 8 kV; Air Discharge: +/- 15 kV, IEC 61000-4-3 Radiated: 80 MHz to 1 GHz: 1.4GHz to 2.0GHz; 5 v/m, 2.0GHz to 2.7GHz; 5 v/m, IEC 61000-4-4 EFT: DC power line +/- 4 kV, Data Line +/- 4kV), IEC 61000-4-5 Surge: DC power line, Line/Line +/- 2kV, Line/Earth +/- 2kV, data line /earth +/- 2kV ; Common mode and Differential mode, IEC 61000-4-6 Conducted: 150kHz to 80 MHz; 10Vrms, IEC 61000-4-8 Magnetic Field: 30A/m (Magnetic Field) (Power Frequency Magnetic Field Immunity Test), IEC 61000-4-11 Voltage Dips: 70% dip, 40% variation IP Rating: IP30D Protection ACT: TAA, BAA, NDAA
Environmental	RoHS, WEEE, REACH
Frame Size	Up to 10,240 bytes
Port Types	Access: 100BASE-X Fiber Transceivers, 1000BASE-X Fiber Transceivers, 1000BASE-T Copper Transceivers, 10/100/1000BASE-T SGMII Copper Transceivers Uplink: 1000BASE-X Fiber Transceivers, 10GBASE-X Fiber Transceivers, 10GBASE-T Copper Transceivers 10/100/1000/2.5G/5G/10GBASE-T Multi-rate Copper Transceivers
Cable Types	Fiber: Multimode: 50/125, 62.5/125µm Single-mode: 9/125µm
AC Power Requirements (Models with AC/DC Adapter)	100 - 240VAC/50 - 60Hz 0.93A @ 240VAC (max) Barrel Connector
DC Power Requirements (Models with DC Terminal)	9 to 16VDC; 0.54A @ 12VDC 2 Pin Terminal
Dimensions (W x D x H)	3.8" x 4.8" x 1.0" (96.5 mm x 121.9 mm x 25.4 mm)
Weight	Module Only: 1.0 lbs. (454 grams) w/ Adapter: 1.5 lbs. (680 grams)
Operating Temperature	Commercial: 0 to 50°C Wide: -40 to 60°C (-20°C AC cold start) Extended -40 to 75°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: 489,830 AC/DC Adapter: 100,000
Warranty	Lifetime warranty with registration and 24/7/365 free Technical Support

ORDERING INFORMATION

Step 1: Choose a Base Part Number (8585N-x-pt)

Model Number	Description
8585N-0-pt	iConverter 10GXX SFP Receptacle to SFP/SFP+ Receptacle

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

Step 2: Choose a Power Option (8585N-x-pt)

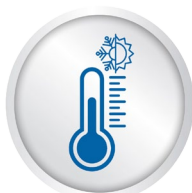
Models without Integrated Mounting Brackets	
A	Barrel Connector and AC/DC Power Adapter, 100-240VAC, 50-60Hz, with US power cord without integrated mounting brackets
B	Barrel Connector and Universal AC/DC Adapter, 100-240 VAC, 50-60Hz, No Power Cord, without integrated mounting brackets
C	Direct DC input,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

Step 3: Choose an Operating Temperature Range (8585N-x-pt)

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

ACCESSORIES

Accessories	
Model Number	Description
8250-0	DIN Rail Mounting Kit
8251-0	DIN Rail Mounting Clip
8260-0	1U Rack Mount Shelf (four module per shelf)



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