iConverter

iConverter® xFF
SFP to SFP Protocol-Transparent Fiber Converter

The *iConverter* xFF is a protocol-transparent media converter that provides reliable and cost-effective conversion between different wavelengths, multimode and single-mode, and dual and single-fiber.

The *iConverter* xFF operates as a protocol and rate-transparent device, supporting data rates of 1Mbps to 1.25Gbps by selecting the appropriate Small Form Pluggable (SFP) transceiver. The xFF supports a variety of network protocols, including Ethernet, Fast Ethernet, Gigabit Ethernet, OC-3 and OC-12 SONET protocols.

iConverter xFF models are available with multimode, single-mode and single-fiber SFP transceivers. SFPs allow adaptability to different fiber types, distances and wavelengths, providing maximum flexibility across a variety of network architectures and topologies. The same xFF media converter can utilize a variety of SFPs for different wavelengths and distances, reducing costs and simplifying inventories.

SFP transceivers enable the xFF to operate as a Coarse Wave Division Multiplexing (CWDM) transponder, which converts an optical signal from legacy fiber equipment to a specific CWDM wavelength. CWDM technology increases the bandwidth capacity of the fiber infrastructure by overlaying multiple signals, each using a different wavelength, over an existing fiber link.

There is no manual configuration required with the plug-and-play *iConverter* xFF. Connect the fiber cables to the appropriate interface and the installation is complete.

The xFF features user-selectable Link Propagate and Remote Fault Detection modes to facilitate quick fault detection, isolation and reporting.

The *iConverter* xFF modules are hot-swappable and can be mounted in a 19-Module (2U high) or 5-Module (1U high) rack-mountable chassis (19-inch or 23-inch) with any combination of redundant AC and DC power supplies. It can also be mounted in a 2-Module AC or DC powered chassis, or in a 1-Module chassis with AC or DC power input.

SFPs not included

- SFP to SFP protocol-transparent fiber converter
- Supports Ethernet, Fast Ethernet, Gigabit Ethernet, OC-3 and OC-12 SONET applications
- Provides multimode to single-mode and dual to single-fiber media conversion
- Provides wavelength conversion for CWDM applications
- User-selectable link fault detection modes facilitate quick fault detection, isolation and reporting
- Management is available with the addition of a management module to the chassis
- SNMP management via *NetOutlook*® provides real-time port and module information, configuration and trap notification
- Modules are hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis
- LED displays for immediate visual status of each port
- Conforms to IEEE 802.3 specifications
- Lifetime Warranty and free 24/7 Technical Support

SPECIFICATIONS

Model Type	xFF
Protocols	Transparent up to 1.25Gbps (100BASE-FX, 1000BASE-X, OC-3, OC-12)
Fiber Connectors	SFP - LC
Controls	LP, RFD
LED Displays	Power, FO link (2)
Dimensions	W:0.85" x D:4.5" x H:2.8"
Weight	8 oz.
Compliance	UL, FCC Class A, CE
Power Requirement (typical)	0.5A @ 3.3VDC
Temperature	Standard: 0 to 50º C Wide: -40 to 60º C Storage: -40 to 80º C
Humidity	5 to 95% (non-condensing)
Altitude	-100m to 4000m
MTBF (hrs)	1,300,000

MANAGEMENT

Management is accomplished by using a Network Management Module (NMM) or a media converter with integrated management (such as an *iConverter* 10/100M2) that provides monitoring, configuration and trap notification. The management module can be accessed via SNMP, Telnet, and via a serial port. The SNMP-based management is accomplished via Omnitron's intuitive, graphic-oriented *NetOutlook* management software or third party SNMP management software. Management via the Telnet and the serial interfaces have an easy-to-use, menu-driven interface.

Real-time xFF parameters that can be monitored include power, link, data receive status, module type and model, hardware and software revisions, serial numbers and a user-defined identifier.

The user can override the xFF module's physical DIP-switch settings by using SNMP or Telnet to configure DIP-switch-selectable parameters such as Link Propagate or Remote Fault Detection.

In addition to all standard *iConverter* SNMP traps such as module insertion and removal, the xFF modules can generate traps on port state changes including link-up and link-down. Trap monitoring of specific events can be selectively enabled or disabled by the network administrator.

ORDERING INFORMATION

xFF Ordering Information		
Standard Temp	**Wide Temp**	**Extended Temp**
8699-0	**8699-0-W**	**Consult Factory**

SFP Ordering Information									
Fiber Type	**Distance**	**Model Number**	**Tx Wavelength [nm]**	**Rx Wavelength [nm]**	**Min. Tx Power [dBm]**	**Max. Tx Power [dBm]**	**Min. Rx Sense [dBm]**	**Max. Rx Power [dBm]**	**Link Budget**
Fast Ethernet / OC-3*									
MM	5km	7006-0	1310	1310	-24	-14	-31	-14	7
SM	30km	7007-1	1310	1310	-15	-8	-31	-8	16
SM-SF	20km	7014-1	1310	1550	-15	-5	-30	-3	15
SM-SF	20km	7015-1	1550	1310	-15	-5	-30	-3	15
Gigabit Ethernet / OC-12*									
MM	220m / 550m	7206-0	850	850	-10	-4	-17	-3	7
SM	15km	7207-1	1310	1310	-9.5	-3	-19.5	-3	10
SM-SF	20km	7214-1	1310	1550	-9.5	-3	-20	-3	10.5
SM-SF	20km	7215-1	1550	1310	-9.5	-3	-20	-3	10.5

See SFP data sheet (091-17000-001) for other supported transceiver models.
*Consult factory for compatibility with other protocols.

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