iConverter
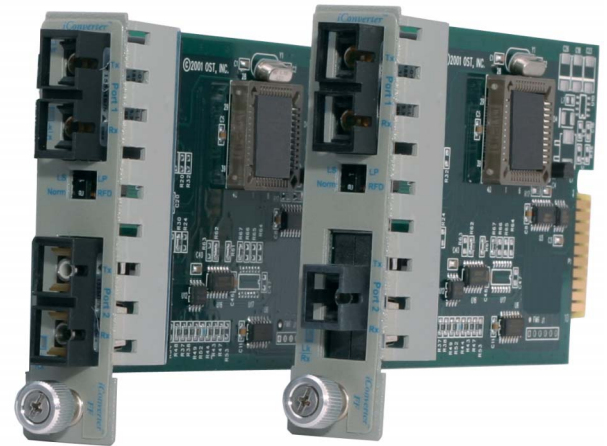
iConverter® OC12FF
Multimode to Single-Mode Managed Media Converter

The *iConverter* OC12FF managed media converter is a member of the modular *iConverter* product family. The OC12FF provides multimode to single-mode fiber conversion and is a cost-effective solution for extending network distances by connecting multimode fiber network devices over single-mode fiber cabling.

iConverter OC12FF models are available with multimode, single-mode, and single-fiber options. The single-mode fiber port supports SC connectors and distances up to 80km. The multimode fiber port supports SC connectors and distances up to 550m.

The OC12FF features user-selectable Link Propagate and Remote Fault Detection modes to facilitate quick fault detection, isolation and reporting.

iConverter OC12FF 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, 24VDC or 48VDC power supplies. They can also be mounted in a 2-Module AC or 18 to 60VDC powered chassis, or in a 1-Module AC/DC powered chassis.

The *iConverter* family of managed fiber access media converters are used in Service Provider access networks and Enterprise LANs. *iConverter* media converters provide fiber connectivity with copper to fiber, multimode fiber to single-mode fiber, or dual fiber to single-fiber conversions.

- OC-12 multimode to single-mode fiber converter

- Supports multimode, single-mode, and single-fiber with SC connectors

- Supports distances up to 80km

- 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, remote parameter 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

- Lifetime Warranty and free 24/7 Technical Support

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SPECIFICATIONS

Model Type	OC12FF
Protocols	OC-12
Fiber Connectors	SC, Single-Fiber SC
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, CE, FCC Class A, NEBS Level 3
Power Requirement	0.5A @ 3.3VDC (typical)
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)	1,600,000

MANAGEMENT

Management is accomplished by using a management module that provides monitoring, remote 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.

Some of the real-time OC12FF parameters that can be monitored include link and data receive status. Other parameters include module type and model, hardware and software revisions, serial numbers and a user-defined identifier.

The user can override the OC12FF module's physical DIP-switch settings by using SNMP or Telnet to remotely 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 OC12FF 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

Model Type	Fiber Type (Port 1 / Port2)	Distance Port 1	Distance Port 2	Connector Types SC/SC	Fiber Type Port 1 Port2	Tx Wavelength (nm)	Rx Wavelength (nm)	Min. Tx Power (dBm)	Max. Tx Power (dBm)	Min. Rx Sensitivity (dBm)	Max. Rx Sensitivity (dBm)	Link Budget (dBm)
OC12FF Dual Fiber	MM / SM	550m	12km	8681-1	MM	1310	1310	-20	-14	-26	-14	6
					SM	1310	1310	-9.5	-3	-19.5	-3	10
	MM / SM	550m	34km	8681-2	MM	1310	1310	-20	-14	-26	-14	6
					SM	1310	1310	-5	0	-23	-3*	18
	MM / SM	550m	80km	8681-3	MM	1310	1310	-20	-14	-26	-14	6
					SM	1550	1550	-5	0	-23	-3*	18
OC12FF Single-Fiber	MM / SM	550m	20km	8690-1	MM	1310	1310	-20	-14	-26	-14	6
					SM	1310	1550	-9.5	-3	-20	-3	10.5
	MM / SM	550m	20km	8691-1	MM	1310	1310	-20	-14	-26	-14	6
					SM	1550	1310	-9.5	-3	-20	-3	10.5
	SM / SM	12km	20km	8692-1	SM	1310	1310	-9.5	-3	-19.5	-3	10
					SM	1310	1550	-9.5	-3	-20	-3	10.5
	SM / SM	12km	20km	8693-1	SM	1310	1310	-9.5	-3	-19.5	-3	10
					SM	1550	1310	-9.5	-3	-20	-3	10.5

For wide temperature (-40 to 60ºC), add a "W" to the end of the model number. Consult factory for extended temperature (-40 to +75º C) models.
When using single-fiber (SF) media converter models, the Tx wavelength on one end has to match the Rx wavelength on the other.
*A minimum of 3dB of attenuation is required for these models.

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