Management Options iConverter, Serial Age	nt
Network Management	
1: Chassis and Module Management	
2: Set Module Name Preferences	
Management Module Preferences	
3: IP and Control Preferences	
4: SNMP Preferences	
5: Abandon Preference Changes	
6: Save Preference Changes	
7: Restore Factory Defaults	
8: Restart Management Module	
9: Other Networking Features	
Management Module Maintenance	
10: Firmware Update	
11: Set Date/Time	
IP Address = 192.168.1.220	
Chassis Number = 1	
Enter Choice, <h>elp, E<x>it ></x></h>	

Figure D: Command Line Interface Menu Options

The CLI interface allows for the detailed configuration of the module. It is recommended to configure the module with an IP address associated with the attached network. Also, SNMP traphost address should be configured if the module is managed with an SNMP-based Management System. See the 2FXM User Manual for complete information.

4) VERIFY OPERATION

Once the module has been installed and configured per steps 1 - 3, verify the module is operational by viewing the LED indicators.

The Power LED indicates the module is receiving power from the chassis.

The Fiber Optic link LEDs indicate the fiber optic connections have been established. Verify the Link Mode selection is set to Link Segment (LS). Until a stable link is established, leave the Link Mode configured for LS.

LED Function "Legend"	Color	Off State	On / Blinking State
Power "Pwr"	Amber	No power	On: Module has power
Power Supply Status #X	Amber	Chassis Power Supply not installed	On: Power available from installed Power Supply #X Blinking: No power available from installed Power Supply #X
Port 1 Fiber Link Activity "P1"	Green	No Fiber Link	On: Fiber link is active Blinking: Fiber Data Activity
Port 1 Half/Full Duplex "FDX"	Green	Half-Duplex	On: Full-Duplex
Chassis Management Master/Slave "Msr/Slv"	Green	Chassis Slave Mode	On: Chassis Master Blinking: Operating in OAM Mode
Port 2 Fiber Link Activity "P2"	Green	No Fiber Link	On: Fiber link is active Blinking: Fiber Data Activity
Port 2 Half/Full Duplex "FDX"	Green	Half-Duplex	On: Full-Duplex

Figure E: LED Indicators

After a Link presence is established, the Link Mode selection can be modified.

Form 040-08940-002 D 12/07



iConverter 2FXM Plug-in Module QUICK START GUIDE

The Omnitron *iConverter*[®] 2FXM Network Interface Device (NID) with integrated management provides Fast Ethernet (100BASE-FX) fiber-to-fiber media conversion.

The 2FXM conforms to Ethernet in the First Mile (EFM) fiber standards to support Fiber-to-the-X (FTTX) Metropolitan and Enterprise LAN networks. Built-in Operation, Administration and Maintenance (OAM) functionality enables the 2FXM to operate as a managed demarcation point at the customer premises and network edge, offering service provisioning functions, such as Quality of Service and Bandwidth Control (rate-limiting) capabilities.



The 2FXM module can be managed using Omnitron's *NetOutlook*™ SNMP Management Software, 3rd Party SNMP Client, Telnet or the Command Line Interface (CLI).

For more information, including the complete User Manual on the 2FXM Plug-in module, access Omnitron's documentation download web page to view all relevant documents: http://www.omnitron-systems.com/downloads.php

INSTALLATION PROCEDURE

- 1) Configure DIP-Switches
- 2) Install Module in Chassis and Connect Cables
- 3) Configure Module via Command Line Interface
- 4) Verify Operation

1) CONFIGURE DIP-SWITCHES

DIP-SWITCH BANK 1

SW1 - PAUSE ENABLE

When the Pause Enable DIP-switch is in the LEFT "Off" position (factory default), the 2FXM disables the fiber ports' ability to send and receive Pause frames during network congestion. Setting this DIP-switch to the RIGHT "On" position, enables the 2FXM to receive Pause frames from its link partner. This enables the 2FXM to stop transmitting traffic to its link partner and store incoming frames from the other port in the internal buffer until the congestion clears. If the internal buffer of the 2FXM becomes congested, it will transmit a Pause frame to its link partner.



Setting this DIP-switch to Half-Duplex "HDX" facilitates a connection that supports Half-Duplex. Setting this DIP-switch to Full-Duplex "FDX" facilitates a connection that supports Full-Duplex operation.



Figure A: DIP-Switch Locations

Omnitron Systems Technology * 140 Technology Dr. #500 * Irvine CA 92618 949.250.6510 tel * 949.250.6514 fax * www.omnitron-systems.com

SW3 AND SW4 - RESERVED

These DIP-switches are for factory use only and must always remain in the LEFT (factory default) position.

SW5 - FIBER PORT 2 FULL/HALF DUPLEX

Setting this DIP-switch to Half-Duplex "HDX" facilitates a connection that supports Half-Duplex. Setting this DIP-switch to Full-Duplex "FDX" facilitates a connection that supports Full-Duplex operation.

SW6, SW7, SW8 - LINK MODES

The module supports multiple link modes for fault detection and isolation. Link Segment should be used for the initial installation of the module. Once installed and operational, the link mode can be modified.

Switch	Left (Factory Default)	Right	SW6	SW7	SW8	Link Mode Selection
SW1	Off: Pause Disable	PAUS: Pause Enable	Left	Left	Left	Link Segment (LS) (Factory Default)
SW2	FDX: Fiber Port 1Full-Duplex	HDX: Fiber Port 1Half-Duplex	Right	Left	Left	Link Propagate (LP)
SW3	Reserved	Reserved	Left	Right	Left	Remote Fault Detect + Link Segment (RFD + LS)
SW4	Reserved	Reserved	Right	Right	Left	Remote Fault Detect + Link Propagate (RFD + LP)
SW5	FDX: Fiber Port 2 Full-Duplex	HDX: Fiber Port 2Half-Duplex	Left	Left	Right	Symmetrical Fault Detect (SFD)
SW6			Right	Left	Right	Illegal Setting
SW7	See Link Mo	de Selection	Left	Right	Right	Illegal Setting
SW8			Right	Right	Right	Illegal Setting

Figure B: DIP-Switch Bank 1

DIP-SWITCH BANK 2

SW1, SW2 - BACKPLANE ENABLE

When the DIP-switch is in the LEFT "DS" position (factory default), the Backplane Port of the 2FXM is isolated from the chassis' Ethernet Backplane. When the DIP-switch is in the RIGHT "EN" position, the Backplane Port is enabled. This allows Ethernet Backplane connectivity to an adjacent module via the chassis Backplane Link "A" or "B" depending on the switch setting.

SW4 - MASTER/SLAVE

When the 2FXM module is installed in a chassis with an *iConverter* Network Management Module (NMM), set DIP-switch to the LEFT "M/SL" position (factory default). The assignment of mastership is automatically negotiated by the installed management modules. To designate the 2FXM module as the master of the chassis, set the DIPswitch to the LEFT "M/SL" position, and set the DIP-switch of the other

Switch	Left	Right
	(Factory Default)	
SW1	A-DS: Disabled Backplane Port A	A-EN: Enabled Backplane Port A
SW2	B-DS: Disabled	B-EN: Enabled
	Backplane Port B	Backplane Port B
SW3	Reserved	Reserved
SW4	M/SL:	SL:
	Auto Select	Slave-Mode Only
SW5 - SW8	Reserved	Reserved

Figure C: DIP-Switch Bank 2

installed management modules to the RIGHT "SL" position to enable Slave-Only mode.

SW5, SW6, SW7, SW8 - RESERVED

These DIP-switches are for factory use only and must always remain in the LEFT position (factory default).

2) INSTALL MODULE IN CHASSIS AND CONNECT CABLES

- a. Carefully slide the module into an open slot in the chassis. Align the module with the installation guides and ensure that the module is firmly seated against the backplane. Secure the module by fastening the front panel thumbscrew (push in and turn clockwise to tighten) to the chassis front. Verify the "Pwr" LED is ON (indicating the chassis is powered).
- b. Insert the SFP Fiber transceivers into the Port 1 and Port 2 SFP receptacles on the 2FXM.

NOTE: The release latch of the SFP Fiber transceiver must be in the closed position before insertion.

d. Connect an appropriate multimode or single-mode fiber cable to the SFP fiber ports of the installed module. It is important to ensure that the transmit (TX) is attached to the receive side of the device at the other end and the receive (RX) is attached to the transmit side. Single-fiber (SF) media converter models operate in pairs. The TX wavelength must match the RX wavelength at the other end and the RX wavelength must match the TX wavelength at the other end.

NOTE: In order to support Remote OAM Management Mode, Port 1 of the 2FXM must be connected to the Port 1 on the 2FXM or link partner.

3) CONFIGURE MODULE VIA COMMAND LINE INTERFACE

To access the Command Line Interface (CLI), connect the 2FXM RS-232 Console Port to the COM port of a computer equipped with terminal emulation software such as HyperTerminal. The Console Port (DCE) is a mini DIN-6 female connector which can be changed to a DB-9 connector with the included adapter. The 2FXM Console Port is a standard asynchronous serial interface.

Start HyperTerminal and select the correct COM Port in the HyperTerminal "Connect To:" window. Set the serial port to the following:

Bits Per Second	57,600
Stop Bits	1
Data Bits	8
Parity	NONE
Hardware Flow Control	NONE

Once connected, press <*ENTER*> to bring up a command line prompt on the attached PC. A new 2FXM module does not have a password, and will skip the *Password Entry* screen and go straight to the *Management Options* screen. If a password has been set, the *Password Entry* screen will be displayed. Type the password and press <*ENTER*>, the 2FXM will respond with the *Management Options* screen:

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com