

iConverter® NMM2 Network Management Module

The iConverter NMM2 provides comprehensive remote monitoring, configuration and alarm notification functions for all iConverter managed media converters and Network Interface Devices (NIDs).

Installed in any slot of an iConverter chassis, the NMM2 manages all other modules and power supplies installed in the chassis through a high-speed management backplane. Additionally, all remote NIDs linked to the managed iConverter chassis can be managed through a secure IP-less management channel.

The RJ-45 Ethernet port on the NMM2 provides remote access using Telnet, FTP and SNMPv1/2c/3. The serial console port on the NMM2 provides local access using asynchronous RS232. An intuitive Command Line Interface (CLI) can be accessed either via the serial port or TELNET.

SNMP Management is accessed either via [NetOutlook® SNMP Management Software](#), or by any third party SNMP management software. NetOutlook SNMP Management system provides Graphical User Interface (GUI) that provides the ability to remotely monitor network performance, configure hardware parameters, alarm monitoring and perform advanced fault detection.

The NMM2 provides real-time management, continuously collecting system status and module information. It reports the collected status to the network management applications and displays LED alarms for chassis power supplies. The NMM2 also provides comprehensive provisioning support for all local and remote iConverter modules, including port settings, VLANs and rate limiting. Network alarms are forwarded as traps to multiple trap hosts and recorded in a persistent system log.

In the event of a power outage, the NMM2 supports dying gasp SNMP trap notification when installed in a 1-Module or 2-Module chassis with dying gasp support.

The NMM2 manages remote NIDs connected to the managed chassis via an IP-less management channel. Utilizing IEEE 802.3ah extensions, an NMM2 in a chassis at the network core can use a single IP address to manage up to 18 iConverter Network Interface Devices (NIDs) at different edge locations. This capability simplifies IP address management, improves network security and conserves the use of IP addresses.



KEY FEATURES

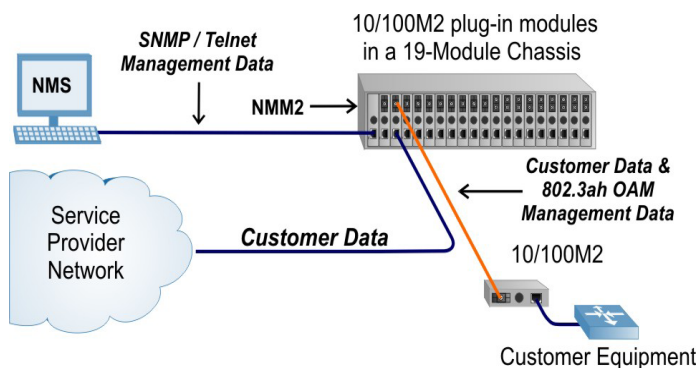
- Provides real-time management, trap notification and remote configuration
- Supports SNMPv1, SNMPv2c, SNMPv3, Telnet and FTP protocols
- SNMP management via NetOutlook® management software, or third-party SNMP management software
- Password protected to prevent unauthorized access
- Utilizes IEEE 802.3ah OAM extensions providing OAM IP-Less management
- Management access available through the RJ-45 Ethernet port, serial port or from an adjacent module across the Ethernet backplane
- 10/100Mbps RJ-45 port supports auto or manual negotiation and auto-crossover
- Commercial (0 to 50°C), wide (-40 to 60°C) and extended (-40 to 75°C) temperature ranges
- LED displays for immediate visual status of each port
- Hot-swappable in 19-Module, 5-Module, or 2-Module chassis
- TAA, BAA and NDAA compliant, and Made in the USA
- Lifetime Warranty and free 24/7 Technical Support

SPECIFICATIONS

Description	<i>iConverter</i> NMM2 Network Management Module	
Standard Compliances	IEEE 802.3 RFC1155, 1156, 1157, 1212, 1213, OST MIB MEF 9, 14, 21	
Management	IPv4 address, Telnet, SNMPv1/v2c/v3, Serial Console	
Regulatory Compliances	Safety: EMI: ACT:	UL, cUL, CE, NEBS Level 3, UKCA FCC Class A TAA, BAA, NDAA
Environmental	RoHS, WEEE, REACH	
Frame Size	Up to 2,048 bytes	
Port Types	Copper:	10/100BASE-T (RJ-45)
	Serial:	RS-232 (Mini DIN-6 female) Mini DIN-6 to DB-9 adapter included
Cable Types	Copper:	EIA/TIA 568 A/B, Category 5 and higher
	Serial:	RS-232, 22 to 24 AWG, 12 to 50 pF/ft
DC Power Requirements	DC Input: (Backplane)	3.3VDC, 0.9A @ 3.3VDC
Dimensions W x D x H	0.85" x 4.5" x 2.8" (21.6 mm x 114.3 mm x 71.1 mm)	
Weight	8 oz. (226.8 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)	600,000	
Warranty	Lifetime warranty and 24/7/365 free Technical Support	

APPLICATION EXAMPLE

In this application example, iConverter 10/100M2 plug-in modules are installed in the 19-Module chassis, and connected via the fiber link to a standalone 10/100M2 module. With an NMM2 installed in the 19-Module chassis, an IP-less management channel between the 10/100M2 link partners is established. The IP address resides only at the network core (NMM2), and does not exist on the customer network.



ORDERING INFORMATION

Step 1: Choose a Base Part Number (xxxxN-xt)

Model Number	Description
8000N-0t	iConverter NMM2 Module

Step 2: Choose an Operating Temperature Range (xxxxN-xt)

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

ACCESSORIES

Model Number	Description
8081-3	NMM2 Serial Cable (DB-9 Male to Female - 3ft.)
8082-0	NMM2 DIN-6 to DB-9 Female Adapter Cable
See Chassis and Mounting Options product page	

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