



OPTICAL HEADEND PLATFORM

OTOHP-NMS NETWORK MONITORING MODULE INSTRUCTION MANUAL



Phone: (209) 586-1022

(800) 545-1022

Fax: (209) 586-1026

E-Mail: salesupport@olsontech.com

www.olsontech.com

PRECAUTIONS

Failure to comply with these general safety precautions and with the specific precautions described elsewhere in this manual violates the safety standards of the design, manufacture, and intended use of the device. Olson Technology Inc. assumes no liability for the customer's failure to comply with these precautions.

CAUTION: Ensure that the voltage visible through the Line Voltage Indicator window on the AC power entry port of the power supply module corresponds to the range in the specification sheet (85 to 264 V_{AC}).

CAUTION: Do not operate the module outside of its maximum ratings. Doing so may result in unsatisfactory performance, unit failure, shortened unit life span, or a safety hazard.

CAUTION: Do not attempt to modify or service any part of this module not specifically referred to as replaceable in this manual. Doing so voids the warranty. Contact Olson to get an RMA number and return the module to Olson Technology Inc. for service and repair.

CAUTION: Do not restrict airflow in front or back of the chassis. The OTOHP-NMS module should be operated in an ambient environment between 0 and 50°C (32 and 122°F).

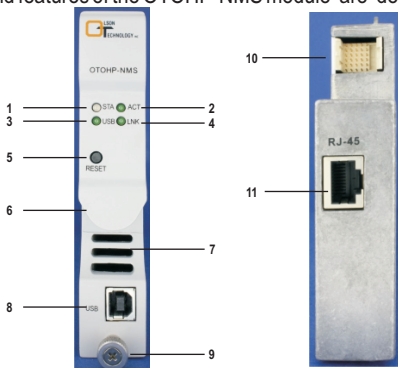
CAUTION: Store the module away from corrosive materials, at a temperature between -40 and +70°C (-40 to +158°F), and with no more than 85% humidity, non-condensing.

INTRODUCTION

The OTOHP-NMS equipment management module is mounted in the first (left) slot of the OTOHP platform to provide local monitoring and configuration, as well as remote management. The OTOHP-NMS module is able to communicate with the rest of the modules via USB port for local access or RJ45 Ethernet port for remote access. The OTOHP-NMS module provides an NMCP (Network Management Console Program) for monitoring and configuration along with a PC compatible graphical user interface (GUI). The OTOHP-NMS integrates the SNMP protocol and the SCTE-HMSMIB's for remote access via a standard SNMP agent.

OPERATION PANEL DESCRIPTIONS

The components and features of the OTOHP-NMS module are described below.



1. STA LED: Green indicates the module is working properly. Red indicates at least one of the 8 fans of the OTOHP-CH chassis has failed
2. ACT LED: Green indicates the module is accessing data through RJ-45 port. No light indicates the module is not accessing data.
3. USB LED: Green indicates that the USB port is connected to a PC. No light indicates the USB port is not connected to a PC.
4. LNK LED: Green indicates the Ethernet port is connected to a PC. No light indicates the Ethernet port is not connected to a PC.
6. Reset: Push button; when pushed, this button causes the module to reset.

OPERATION PANEL DESCRIPTION (CONT.)

6. Handle: Used to handle the module when being installed or uninstalled.
7. Heat dissipation holes: Air flow out of these holes dissipates the heat.
8. US B Port: USB protocol type B connection for PC.
9. Thumbscrew: Fixes the module to the chassis.
10. 30-pin Connector: Provides power and signals to the chassis backplane, connector type is male.
11. RJ-45 Port: SNMP protocol, 10Mbps, half-duplex connection.

INSTALLATION

1. Inspect for bent pins on the backplane connector at the rear of the module. Straighten any bent pins before installing the module.
2. Gently insert the module into Slot1 in the front of the chassis. Be careful to align the metal guide rails on the top and bottom of the module with the nylon guides in the interior of the chassis housing.
3. Tighten the captive thumbscrew on the front of the module. The status (STA) LED should light green.
4. Use a USB direct cable to connect the OTOHP-NMS and your computer and run the "Console Program" software. Refer to the software instructions for details about these operations.
5. Or use an Ethernet twisted-pair cable (e.g., CAT-6) to connect the OTOHP-NMS and your computer and run the "SNMP" software. Refer to the software instructions for details about these operations.

UNINSTALLING THE MODULE

1. Disconnect the USB port from the front of the module.
2. Disconnect the RJ-45 port from the rear of the module.
3. Loosen the thumbscrew on the front panel of the module. CAUTION: Do not pull on the thumbscrews to remove the module. Pull on the handle that the thumbscrew goes through to remove the module.
4. Gently remove the module from the chassis.

ALARM DEFINITIONS

Displayed Message	Alarm Status	System Response
001	Fan 1 error	STA LED turns to red
002	Fan 2 error	STA LED turns to red
003	Fan 3 error	STA LED turns to red
004	Fan 4 error	STA LED turns to red
005	Fan 5 error	STA LED turns to red
006	Fan 6 error	STA LED turns to red
007	Fan 7 error	STA LED turns to red
008	Fan 8 error	STA LED turns to red

TROUBLESHOOTING

Problem	Steps to Take
USB port non-connection.	1. Verify that the USB is connected to PC. 2. Verify the execution of the Console Program software. 3. Verify the USB driver is installed in your computer. 4. Verify the USB cable is OK. 5. Verify the USB port of PC is OK. 6. If the USB port is still showing a non-connection, push the reset button on the front of the module. Then repeat steps 1 and 2. 7. If step 6 failed, pull out the USB connector, and plug in USB again. If no cause can be found for this problem contact Olson Technology Inc. for further troubleshooting or to request an RMA to return the module for service.

TROUBLESHOOTING (CONT.)

Problem	Steps to Take
LAN port non-connection.	1. Verify that the RJ-45 cable is connected to PC. 2. Verify execution of the SNMP software. 3. Verify the setting of the IP address and that the sub-net mask and gateway are correct. 4. Verify the LAN community type is the same with the settings in the NMS. 5. If LAN port is still showing a non-connection, push the reset button on the front of the module. Then repeat steps 1 and 2. 6. If LAN port is still showing a non-connection, contact Olson Technology Inc. for further troubleshooting or to request an RMA to return the module for service.

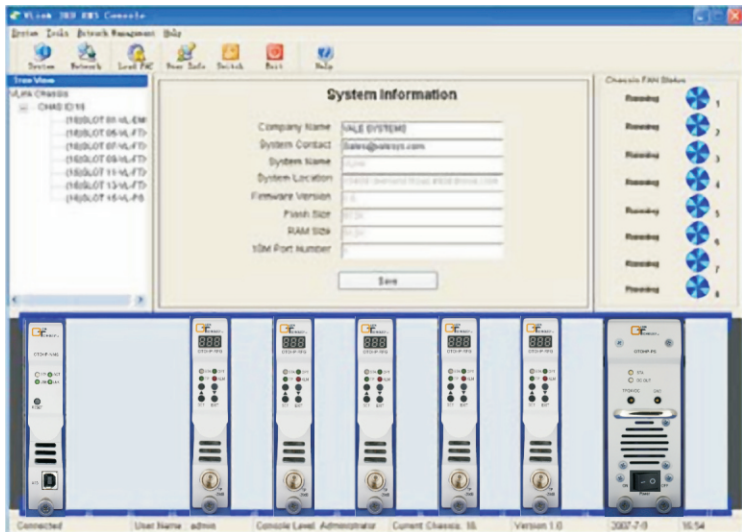
ELECTRICAL & ENVIRONMENTAL CHARACTERISTICS

	Min	Typ	Max	Units
Operating Temp. Range	0		+50	°C
Storage Temp. Range	-40		+70	°C
Relative Humidity,	5		85	%
Weight		1		kg
		2.2		lbs.
Power Dissipation		5		W
USB Port	USB B Type, 115.2kbps			
Ethernet Port				
	RJ-45, SNMP, 10Mbps			

NOTES

1) Non-condensing.

CONSOLE PROGRAM SOFTWARE INTERFACE



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