NMU Network Management Unit

CWDM/DWDM System

Specification

The NMU Network Management Unit network management products can fully realize the comprehensive management of the full-line products. It can comprehensively implement complex management of full-line communication products. NMU network management card uses high-speed ARM processor, which can provide powerful data processing capabilities, provide graphical (NetRiver), browser (WEB), command-line interface (CLI) and other management interfaces for devices, and provides server version (server and client) and standalone version based on C/S architecture. It is suitable for network deployment of various scales, and can build suitable network management solutions for network management operators and enterprise users at all levels.

Functions and features

- Supporting hot swapping, Failure does not affect the normal operation of service boards.
- Supporting local and remote online upgrades without affecting the normal operation of service boards. .
- Supporting SNMP-based unified network management platform, network management mode CLI, WEB, NetRiver (graphical interface).
- Supporting in-band and out-band cascading network management and providing three SFP optical ports, two RJ45 electrical ports and one Console serial port.
- Providing powerful multi-level network topology management function to realize fast and automatic discovery of network topology and generate visual and vivid display graphics.
- Following the TMN specification to implement functions such as device management, monitoring and deployment, software upgrade management, configuration file management, alarm and performance management, and implement network management from device level to network level.

Parameters

System Parameter	Technical Index	
Interface	Optical port: 3 SFP ports, Electric interface: 2 RJ45 ports, Serial interface: 1 Console port.	
Network management mode	NetRiver, WEB, CLI,	
Environmental requirements	Working temperature	-10℃ ~ 70℃
	Storage temperature	-40℃ ~ 80℃
	Relative humidity	5% ~ 95% no condensation
Product dimension	177 (W)*20(H)*225(D)(mm).	
Safety and EMC	Compliance with FCC, UL, CE, TUV, CSA standards.	
Power consumption	<15W.	

Networking Applications

The NMU Network Management Unit network management products can fully realize the comprehensive management of the full-line products. The network management mode has optional out-of-band network management and in-band network management. Support SNMP-based C/S architecture graphical (NetRiver), browser (WEB), remote (TelNet), command-line interface (CLI) and other ways, while supporting the provision of MIB library access to third-party management platform.

Application 1: Out-band Network Management
The out-band network management system is a network management (electrical port or optical port) signal transmitted to the network management center through a third-party network (such as DCN or DNN network) to realize the unified management mode of the network management.
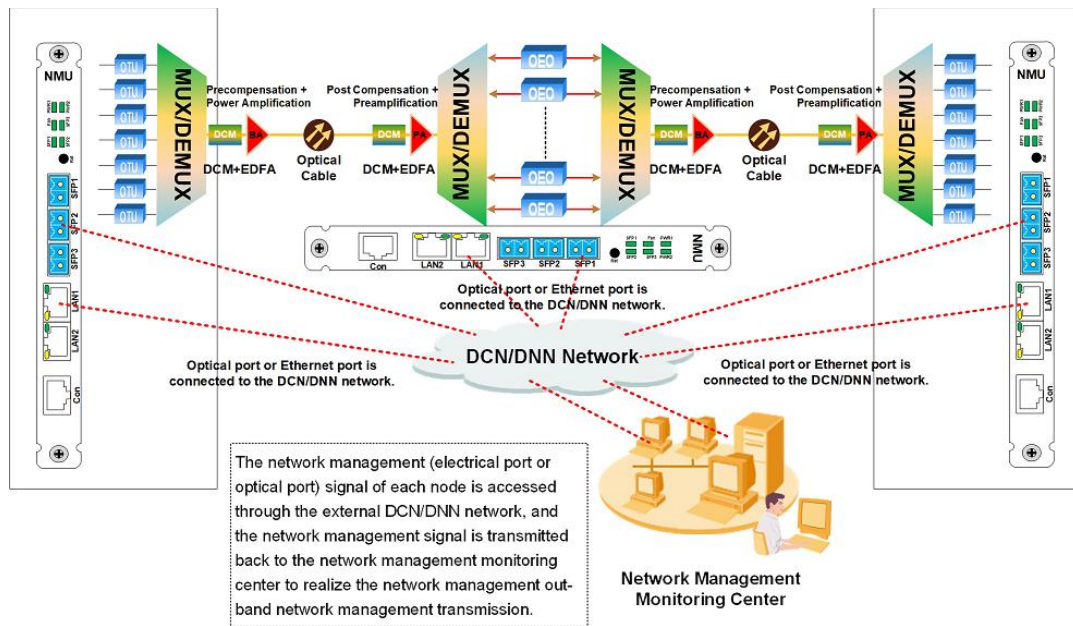
Figure 1: Out-band Network Management

Application 2: In-band Network Management

Each node's network management signal is transmitted to the central node network management through the network management card optical port and the service signal to be converted into an Ethernet signal or a direct optical signal is transmitted to the network management center for monitoring. Thereby achieving a unified management mode within the network management. The network management optical port supports the maximum of three-way in-band network management.
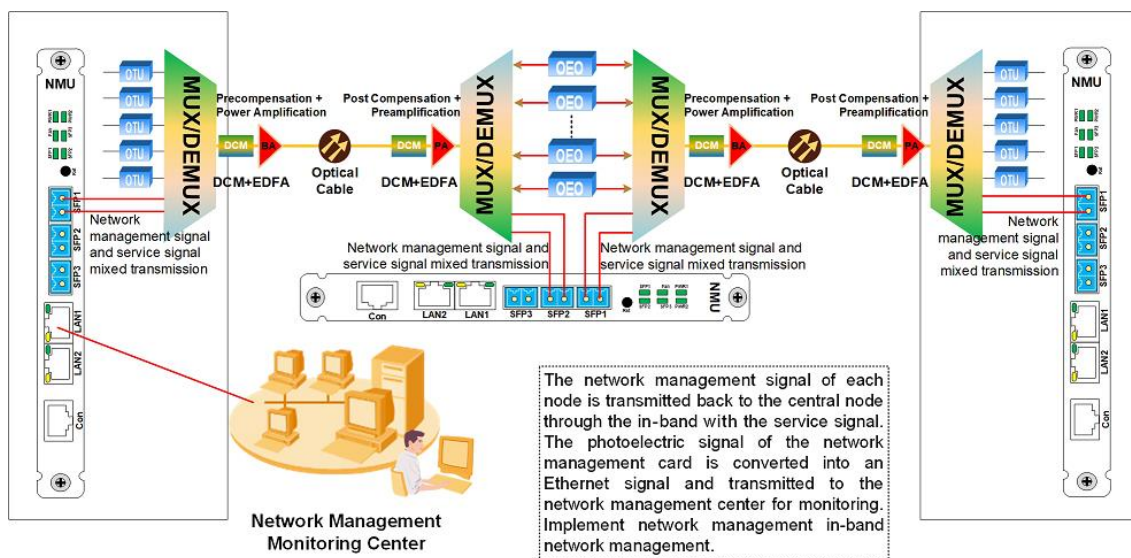

Figure 2: In-band Network Management