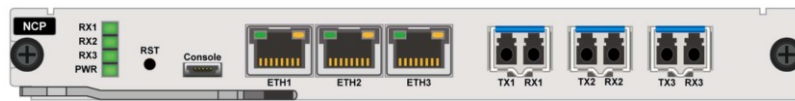


NCP: Network Management Card

NCP is a network management module specially designed for OTNS8600 series products by Sintai Communication. Its main function is to provide an interface between the equipment and network management system, and to complete the management of each board of the network element, all kinds of maintenance and management signal transmission with the OTNS8600 network management system of OTNS8600 series, so as to realize real-time monitoring, maintenance and management of the equipment elements and the whole synchronous equipment network.



Product feature

- Adopts high-speed ARM processor, it provides powerful data processing capability, collects the status information, alarm events and performance parameter of each single-board functional module, transforms, processes and stores them, and at the same time passes the control and management information to other functional blocks of the equipment.
- Provide 1 Console interface to support emulation terminal operation.
- Provide 3 RJ45 Ethernet interfaces, support IP-based graphical SNMP network management.
- Provide 3 SFP optical module interfaces to support the in-band management of the device, realize the processing of 3 optical monitoring channels, and complete the processing of receiving and transmitting optical signals of the optical monitoring channels at each site.
- Supports hot-plugging and does not affect the work of the current service module even after failure.

Product specification

Parameter	Description
Local management serial port	1 Micro-USB Local Management Serial Port
Remote management Ethernet port	3 RJ45 Ethernet interfaces, interface rate 10/100/1000M adaptive
OSC optical supervisory port	3 Pluggable optical SFP ports with LC type interfaces
Network management	Support SNMP, Web, NMS centralized network management
Exchange function	Support IP communication function between devices, realizing integrated management of multiple devices
Protective function	Hot-swapping or failure of network management cards does not affect existing services
Maintenance function	Support local or remote online software upgrades
Reset function	Support hardware reset of the local NCP board by operating the keypad
Initialization function	Support operation of keys to initialize local NCP board hardware
Operating temperature	-10℃~+60℃

Operating humidity	5%~95%
Number of slots occupied	Supports the full range of OTNS8600 chassis, occupying 1 slot
Maximum power consumption	5W

NMS System: OTNS8600 Network Management System

The OTNS8600 Network Management System(NMS) launched by Sintai Communication is based on the B/S architecture research and development, and supports the unified management of the entire line of communication network products of Sintai Communication, realizing the management functions of the whole network system in terms of failure, performance, configuration, security, etc.; through the use of the network management system, it can improve the quality of the network service, reduce the cost of maintenance, and provide a guarantee for the rational use of the network resources. It also provides standard external interfaces for use by upper-level network management, providing a complete solution for network management of the transmission network.

Product feature

- **Topology Management:** Display the status of managed network elements and their connections in a topology diagram, and understand the network organization and monitor the operation status of the whole network in real time by browsing the topology view.
- **Alarm Management:** Provide network-wide alarm monitoring, remote alarm notification and other ways to notify the maintenance personnel at the first time to ensure the real-time effectiveness of troubleshooting.
- **Performance Management:** Monitor the key performance indicators of the network through the visualized operation interface, and provide statistics on the collected performance data to facilitate users to manage the network performance.
- **Log Management:** Record information about operating network management and important events occurring in the system. By regularly querying, counting and saving the log information, it helps network administrators to discover illegal login, illegal operation or conduct fault analysis in time.
- **Security Management:** Security control of the network management system itself is achieved through user management, operation authorization (decentralized and sub-domain) management and user login management.
- **Upgrade Management:** Used for upgrading/downgrading network element software.
- **System Management:** Used to backup and restore the network management system for quick recovery when the network management system is upgraded or migrated.

Network Management Interface

