Headend Optics Platform (CH3000)

NI3030N
Network Interface and Management Module

FEATURES

- Supports management and provisioning of new customer connections from the headend
- Locally or remotely monitor and manage active devices including headend modules, nodes, transceivers, and receivers
- Optical port is field configurable with a variety of SFP plug-in transceivers (1310 nm, 1550 nm, CWDM)
- Managed via SNMP or Opti-Trace® EMS
- Hot plug-in/out

PRODUCT OVERVIEW

The NI3030N is a CH3000 chassis based module that is used to quickly provision new customer connections from the headend. The module can either locally or remotely monitor and manage active devices including nodes, transceivers, and receivers in ARRIS's fiber networks, using the Opti-Trace Element Management System (EMS) or standard SNMP network management tools.

Ask us about the complete Access Technologies Solutions portfolio:

Headend Optics-NI3030

Fiber-Deep   **DOCSIS® 3.1**   **Node Segmentation**   **HPON™/RFoG**   **FTTx**

NI3030N

The NI3030N provides (1) a full-duplex optical port, (2) a standard Compact Flash card slot to store program and network configuration files, and (3) an RJ-45 10Base-T port for interfacing to a management server/terminal. There is also an RS232 port to use for the initial setup of the NI3030N.

The full-duplex optical port accepts a variety of SFP plug-in transceivers available from ARRIS for network communications with ARRIS's high-speed digital transport system and DWDM optical transport technology.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	13.0" D x 4.3" H x 2.0" W; 33 cm x 11 cm x 5.1 cm (3RU height, 2 chassis slots in width)
Weight	2.6 lbs (1.2 kg)
Environmental	
Operating Temperature Range	−20° to +65°C (−4° to 149°F)
Storage Temperature Range	-40° to +85°C (-40°F to +185°F)
Humidity	5% to 95% non-condensing
Power Requirements	
Input voltage (from chassis mid-plane)	12 V_{DC}
Power consumption	16 W (max)
General	
Optical transmission bit rate	2.125 Gbps
Optical interface	SFP transceiver
Hot plug-in/out	
RS232 port	For initial setup, stereo jack style connector
Ethernet Port	
Connector	RJ-45 (8-pin)
Recommended Cable	CAT-5 compliant cable
Speed supported	10 Mbps (10Base-T)
Optical	
	The network optical port can be populated with a variety of SFP plug-in transceivers depending on the network application. Please refer to the appropriate data sheets for the selected transceivers for detailed specifications. Following is a summary of available transceiver options (model numbers and brief descriptions) for this port.
Network Port (2.125 Gbps) Transceivers	• TR40xx-PI (transmit at 1310 nm for links up to 10 km or 40 km) • TR4540-0000-PI (transmit at 1550 nm for links up to 40 km) • TR4580-00-PI (transmit at DWDM Channels 20-59, for links up to 120 km) • TR4440B-xxxx-PI (transmit at CWDM wavelength of xxxx = 1270, 1290…, 1350 or 1430, 1450, 1470, …, 1610 nm for links up to 40 km)
Indicators and Alarms	
Front panel status indicators	Green LED (OK) Yellow LED (non-service-affecting alarm) Red LED (service-affecting alarm) Blue LED (illuminated during mid-plane communication access)
Rear panel indicators	Optical port: red "LOS" LED (indicating loss of signal at optical receiver port), red "BER" LED (indicating excess bit error rate on the optical receive port)
	RJ-45 port: Link and Activity LEDs
	Service affecting alarms: DC failure, hardware failure, loss of optical power, loss of valid data on data input

ORDERING INFORMATION

Model Name	Description
NI3030N-0-00	Network Interface and Management Module

NOTE:
An appropriate SFP plug-in transceiver for the network optical port must be selected for your application. SFPs are ordered separately. Please refer to the list of available SFPs on the previous page.

RELATED PRODUCTS

CH3000 Chassis	Optical Passives
Digital Return	Optical Patch Cords
BP Back Plates	Opti-Trace CMS, OTS, EMS

Customer Care

Contact Customer Care for product information and sales:
- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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