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OSIRIS Network Monitoring and Control Units

Overview



The Positron OSIRIS Multi-service Platform (MSP) is an integrated access solution for the rapidly expanding synchronous optical network (SONET) broadband markets. It delivers the most cost-effective, compact and simple-to-deploy solution for multiservice traffic such as data, voice and video.

The network monitor and control unit (NMCU) is the central processing unit of the Positron OSIRIS MSP. It provides operations, administration, maintenance and provisioning (OAM&P), including fault surveillance, performance monitoring, provisioning and security.

NMCU Technology

The NMCU initializes all the other cards in the system and manages communications over the data communication channel (DCC) of the optical ring. The unit also controls the alarm relays and provides Ethernet and serial ports to the external world.

The NMCU supports the Transaction Language 1 (TL1) on the craft input/output (I/O) ports. The unit provides TL1 and VUE management access via a built-in 10 Base-T Ethernet LAN port, an RS-232 modem port and an RS-232 craft port. This enables OSIRIS to be directly integrated into central office network element (NE) LAN-based management environments.

Key Benefits

- Remote software download
- Remote inventory
- Automatic configuration upload
- Performance monitoring
- Integrated TCP/IP gateway

Key Features

- Software can be downloaded from a single location without changing any plug-in units
- CLEI codes, manufacturing dates, version levels and serial numbers installed in the network are retrievable from a single location
- A replacement plug-in unit automatically provisions itself with the attributes of the unit that was removed
- Full performance monitoring is generated without external monitoring equipment
- Access to an OSIRIS ring is provided via TCP/IP (Telnet) protocol without requiring additional external equipment
- I/O ports are user-configurable

AUX2 Technology

Through the AUX2 plug-in unit, the NMCU can be used to generate up to 11 alarms as a response to incoming user-programmed alarms from a terminal block on the PWR Shelf or other user equipment. The AUX2 also accommodates up to four user-determined alarm outputs. The VUE management software can be used to control the external alarm devices.

Please note that the OSIRIS Micro Shelf and OSIRIS Micro Wallmount Unit (WMU) have the AUX2 card functionality incorporated into their alarm and craft interface units (ACIUs), therefore they do not require a separate card.

Technical Specifications

General

LEDs	1 on the edge of the NMCU and the AUX2 for unit status
Physical AUX2 NMCU	 Occupies the AUX slot of the OSIRIS STD, XTD and XTS shelves Occupied the MCU slot in all OSIRIS shelves
Power Consumption (maximum) Per AUX2 Per NMCU	 1 watt 4 watts
Compliance Safety	 EN60950; UL 1950, 3rd Edition; CSA C22.2, No. 950

Product Code	CPR	ECI/Bar Code	CLEI Code	Description
800307/2	L72996	243924	SNC7U89EAA	NMCU
800365/2	J70645	225538	SNCP260GAA	AUX2 plug-in card

Ordering Information

www.positronaccess.com | Toll Free: 1-888-577-5254 | Tel: 514-345-2220 | Email: info@positronaccess.com

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