Aurora's Opti-Trace NMS Key Components

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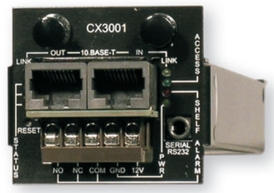
PS3000 Series Power Supplies with Front Panel Displays

- Alphanumeric display provides status, alarms, and configuration information for all modules installed in CH3000 chassis
- Easy menu navigation via four-position push button on front panel
- Front panel craft port provides direct serial connection for Opti-Trace CMS



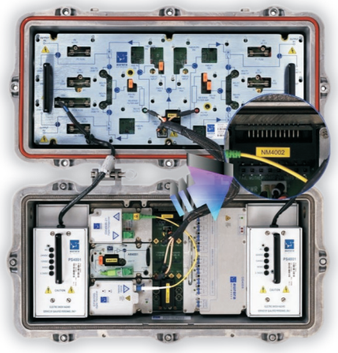
CX3000 Series Communications Module

(installed in rear of power supplies; no additional chassis slot required)

- SNMP proxy agent monitors modules in CH3000 Chassis and external equipment
- Provides status, alarms, configuration and SNMP traps
- Two 10BaseT ports; second port supports daisy-chaining of CX3000 series modules in multiple chassis
- Web-based management with CX3002

EX3005A Ethernet Switch

- Ideally suited for backhauling Ethernet data from remote locations
- Works out of the box with no configuration required
- Most compact Ethernet switch in the industry
- Four auto-negotiating 10/100BaseT ports provide direct interface to the CX3001 for remote hub monitoring; two 100 Mpbs optical links provide flexibility for daisy-chaining over long distances



NM4002 Network Management Plug-in Module for Optical Nodes

- NM4002 provided with every NC4000 series optical node
- Node monitoring enabled at no additional cost
- No separate RF transponders required
- Complete return RF bandwidth available for revenue-generating traffic; node monitoring performed completely "out-of-band"

NI3000 Series Network Interface Module

- Provides direct control of remote optical nodes and offers a low-cost solution for isolating system ingress noise
- Using a single IP address, seamlessly provisions Ethernet connections across convergent HFC and Ethernet transport solutions
- Provides automatic network discovery and loopback testing to the network demarcation device
- Compatible with Fiber on Demand to deliver 160 FastE links on a pair of fibers

M04_004 08/07 Rev C

Aurora's Opti-Trace Network Management System

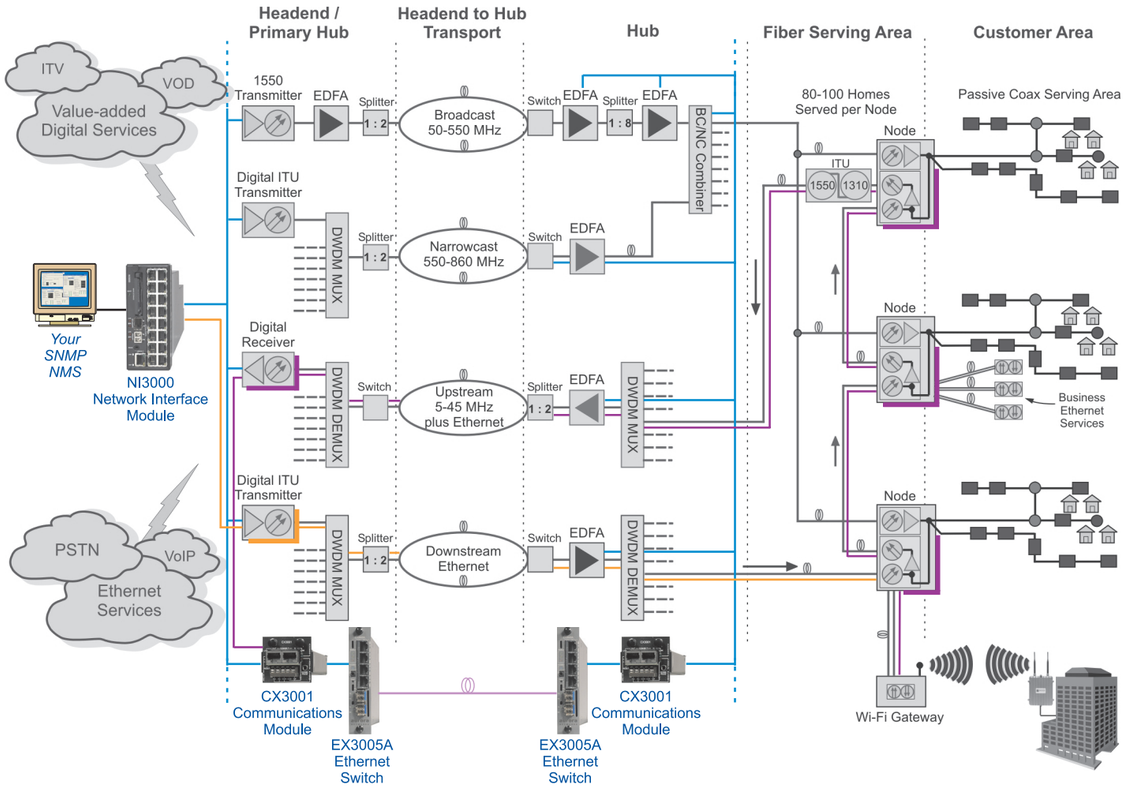
aurora NETWORKS

A whole new light, growing brighter!

Aurora's Opti-Trace
Enjoy the Benefits of a Comprehensive Network Management System

Compatible With Your Current NMS

Comprehensive Network Management



Headend and Hub Monitoring via CH3000 Chassis Mid-plane
Node Monitoring via Return Fiber Only
Ethernet Transport via EX3005A Ethernet Switch
Forward Digital Path Added for Node Control and Ethernet

- Open standard TCP/IP SNMP support
- Compliant with ANSI/SCTE 38-2 2002 (formerly SCTE HMS 063)
- Built-in, all-digital node monitoring eliminates RF transponders
- Unique one-click broadcast/narrowcast level balancing
- Advanced node daisy-chain support with automatic network discovery
- Effortless Ethernet provisioning
- Comprehensive management to localize network faults

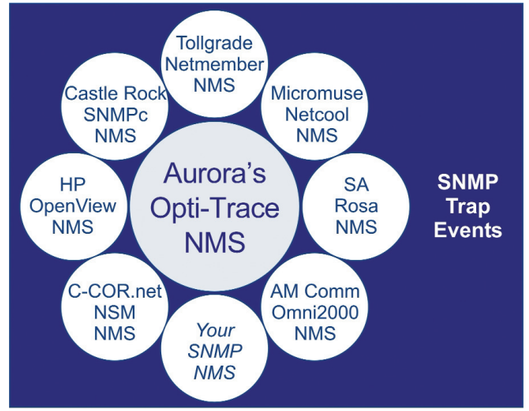
Reliable and Convenient Management With Industry-standard SNMP

- Manage entire Aurora HFC and Ethernet product line from any location with Internet access
- Directly manage Aurora equipment using standard SNMP protocol without a bulky external SNMP controller
- Proven integration with Castle Rock SNMPc, Micromuse Netcool and other NMS packages
- Additional management tools include:
  - Front panel alphanumeric display and push button navigation menus on PS3000 series power supplies in the CH3000 Chassis
- Local control with craft port interface on front panel of PS3000 series power supplies
- Web-based management tools
- Telnet
- E-mail/Pager
- Network, asset and configuration management
- Aurora's Opti-Trace family of network monitoring and management applications:

  Opti-Trace CMS — Direct local monitoring and management of all modules in CH3000 Chassis through power supply craft port

  Opti-Trace OTS — Monitoring and management of all modules in CH3000 Chassis via Ethernet

  Opti-Trace EMS — Monitoring and management of optical nodes and Ethernet provisioning via Ethernet connection



HMS SNMP over IP Network