

slide-in-module for the ion platform

C323x Series



OAM/IP-Based Remotely Managed NID (Network Interface Device)

Features

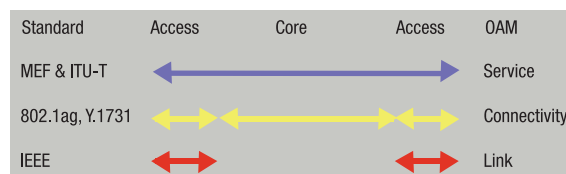
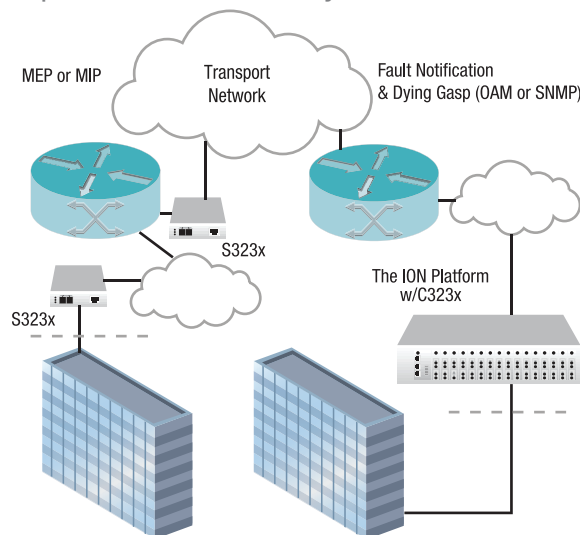
- ▶ MEF 9, 14 + 21 certified
- ▶ 802.3ah Link OAM
- ▶ ITU Y.1731
- ▶ 802.1ag Service OAM
- ▶ 10K Jumbo Frame Support
- ▶ Two selectable Remote Management modes:
 - IP-Based Remote Management
 - In-Band (remote device managed by local peer)
- ▶ AutoCross [
- ▶ Auto-Negotiation
- ▶ Pause
- ▶ Transparent Link Pass Through
- ▶ Far-End-Fault
- ▶ Remote Loopback
- ▶ Field Upgradeable Firmware
- ▶ IEEE 802.1p QoS packet classification
- ▶ IPv4 IP TOS, DiffServ and IPv6 traffic class QoS classification
- ▶ IEEE 802.1q VLAN and double VLAN tagging with 4096 VIDs
- ▶ DHCP client
- ▶ SNMP
- ▶ TFTP
- ▶ RADIUS client
- ▶ RMON counters for each port
- ▶ Bandwidth profiling
- ▶ DMI Optical Management
- ▶ Cable diagnostic function for copper ports
- ▶ SSH
- ▶ Telnet
- ▶ Command Line Interface (CLI)
- ▶ Web management
- ▶ Focal Point Management
- ▶ SNMP v1, v2c, and v3
- ▶ USB port for basic setup
- ▶ Management VLAN

The ION 3230 Series of Network Interface Devices (NIDs) are multi-service NIDs that provide SLA-assurance and advance fault management that is compliant with MEF and IEEE standards. The ION 3230 Series are designed for business Ethernet and mobile backhaul deployments. The ION S3230 Series are MEF 9, 14 + 21 certified. The ION 3230 Series is a 10/100/1000Mbps product with advance features including – IEEE 802.1ag Service OAM, IEEE 802.3ah Link OAM, ITU Y.1731 Performance Monitoring, VLAN, QoS, SSH/SSL, jumbo frame support and bandwidth allocation.

Applications

- ▶ Ethernet in the First Mile (EFM)
- ▶ Fiber to the Premise (FTTP)
- ▶ E-Line Services (EPL & EVPL)
- ▶ Enterprise Markets

Complete End to End Visibility



Remote Troubleshooting and Diagnostics
802.3ah, 802.1ag, Y.1731, SNMP traps, Provider Visibility & Control

Specifications

Standards	IEEE Std. 802.3, IEEE Std. 802.3ah, IEEE Std 802.1P, IEEE Std 802.1Q, IEEE Std. 802.1X
Data Rate	Copper: 10/100/1000 Mbps Fiber: 1000 Mbps
Filtering Addresses	8K MAC Addresses
Max Frame Size	10,240 bytes
Dimensions	Width: 0.86" [22 mm] Depth: 6.5" [165 mm] Height: 3.4" [86 mm]
Power Consumption	4.5 Watts
Environment	See chassis specifications
Shipping Weight	1 lb. [45 kg]
Regulatory Compliance	EN55022 class A, EN55024, CE Mark
Warranty	Lifetime

*C3230-1040 and C3231-1040 have SGMII support for use with 10/100/1000BASE-T copper SFPs.

Gigabit Ethernet

Ordering Information

- C3230-1013**
C3230-1013-D (DMI Options)
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-SX 850nm MM (SC)
[62.5/125 μ m fiber: 220 m/722 ft.]
[50/125 μ m fiber: 550 m/1804 ft.]
Link Budget: 8.5 dB
- C3230-1014**
C3230-1014-D (DMI Options)
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-LX 1310nm SM (SC)
[10 km/6.2 mi.] Link Budget: 10.5 dB
- C3230-1015**
C3230-1015-D (DMI Options)
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-LX 1310nm SM (SC)
[30 km/18.6 mi.] Link Budget: 15.0 dB
- C3230-1017**
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-LX 1550nm SM (SC)
[80 km/49.7 mi.] Link Budget: 21.0 dB
- C3230-1035**
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-LX 1550nm SM (SC)
[120 km/77.7 mi.] Link Budget: 27.0 dB
- *C3230-1040**
10/100/1000BASE-T (RJ-45) [100 m]
to (1) 100/1000Base-X SFP Slot (empty)
- *C3231-1040**
10/100/1000BASE-T (RJ-45) [100 m]
to (2) 100/1000Base-X SFP Slots (empty)
- Single Fiber Products**
- C3230-1029-A1**
C3230-1029-DA1 (DMI Options)
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX-U 1310nm TX/1490nm RX
single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 14.0 dB
- C3230-1029-A2**
C3230-1029-DA2 (DMI Options)
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX-D 1490nm TX/1310nm RX
single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 14.0 dB
- C3230-1029-B1**
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX-U 1310nm TX/1490nm RX
single fiber single mode (SC)
[40 km/24.8 mi.] Link Budget: 20.0 dB
- C3230-1029-B2**
10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX-D 1490nm TX/1310nm RX
single fiber single mode (SC)
[40 km/24.8 mi.] Link Budget: 20.0 dB

*Note all units feature USB port for local management application.

Optional Accessories (sold separately)

SFP Modules

USB Cables

- USBC-AM-BM-03**
USB 2.0 Cable A male to B male [3 ft. Gray]
- USBC-AM-BM-06**
USB 2.0 Cable A male to B male [6 ft. Gray]