

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

Features

- MEF 9, 14 + 21 certified
- 802.3ah Link OAM
- 802.1ag Services OAM
- ITU Y.1731
- 10K Jumbo Frame Support
- Two selectable Remote Management modes:
 - IP-Based Remote Management
 - In-Band Link (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
- TFTPt
- 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



Applications

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

Specifications

Standards	IEEE Std. 802.3, IEEE Std. 802.3ah, IEEE Std 802.1P, IEEE Std. 802.1Q
Data Rate	Copper: 10/100/1000 Mbps Fiber: 1000 Mbps
Filtering Address	8K MAC Addresses
Max Frame Size	10,240 bytes
Dimensions	Width: 3.25" [82 mm] Depth: 6.5" [165 mm] Height: 1.0" [25 mm]
Power	Input: 100-240 VAC, 1A Output: 12 VDC, 1.25A
Operating Temperature	0°C to 50°C
Altitude	0-10,000 ft.
Operating Humidity	5-95% (non-condensing)
Shipping Weight	2.0 lbs. [0.90 kg]
Regulatory Compliance	EN55022 Class A, EN55024, UL60950, CE Mark
Warranty	Lifetime

*S3230-1040 and S3231-1040 have SGMII support for use with 10/100/1000BASE-T copper SFPs.

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.

Ordering Information

S3230-1013

S3230-1013-D (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-SX 850nm MM (SC)
[62.5/125 µm fiber: 220 m/722 ft.]
[50/125 µm fiber: 550 m/1804 ft.]
Link Budget: 8.5 dB

S3230-1014

S3230-1014-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

S3230-1015

S3230-1015-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

S3230-1017

10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-ZX 1550nm SM (SC)
[80 km/49.7 mi.] Link Budget: 21.0 dB

S3230-1035

10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-ZX 1550nm SM (SC)
[120 km/77.7 mi.] Link Budget: 27.0 dB

*S3230-1040

10/100/1000BASE-T (RJ-45) [100 m]
to (1) 100/1000Base-X Open SFP Slot

*S3231-1040

10/100/1000BASE-T (RJ-45) [100 m]
to (2) 100/1000Base-X Open SFP Slots

Single Fiber Products

Recommended use in pairs

S3230-1029-A1

S3230-1029-DA1 (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX 1310nm TX/1490nm RX
Bi-Di SM (SC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

S3230-1029-A2

S3230-1029-DA2 (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX 1490nm TX/1310nm RX
Bi-Di SM (SC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

S3230-1029-B1

10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX 1310nm TX/1490nm RX
Bi-Di SM (SC)
[40 km/24.8 mi.] Link Budget: 20.0 dB

S3230-1029-B2

10/100/1000BASE-T (RJ-45) [100 m]
to 1000BASE-BX 1490nm TX/1310nm RX
Bi-Di SM (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]