

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



Features

- MEF 9, 14 + 21 certified
- 802.3ah Link 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



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
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

*S3220-1040 and S3221-1040 have SGMII support for use with 10/100/1000BASE-T copper SFPs.

The ION 3220 Series of Network Interface Devices (NIDs) are a remotely managed product that offers IP or IP-Less management methods for secure delivery of Ethernet services for business and mobile backhaul applications. With MEF 9, 14 & 21 certification the ION 3220 Series ensures you are compliant with the latest standards. The ION 3220 Series is a 10/100/1000Mbps product with advance features including – IEEE 802.3ah Link OAM, VLAN, QoS, SSH/SSL, jumbo frame support and bandwidth allocation.

Ordering Information

S3220-1013 S3220-1013-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

S3220-1014 S3220-1014-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

S3220-1015/S3220-1015-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

S3220-1017

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

S3220-1035

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

*S3220-1040

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

*S3221-1040

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

Single Fiber Products

S3220-1029-A1 S3220-1029-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

S3220-1029-A2

S3220-1029-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

S3220-1029-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

S3220-1029-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]