

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



The ION 2220 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 2220 Series ensures you are compliant with the latest standards. The ION 2220 Series is a product with advance features including – IEEE 802.3ah Link OAM, VLAN, QoS, SSH/SSL, jumbo frame support and bandwidth allocation.

Specifications

Standards	IEEE Std. 802.3, IEEE Std. 802.3ah, IEEE Std802.1P, IEEE Std 802.1Q
Data Rate	Copper: 10/100/1000 Mbps Fiber: 100 Mbps
Filtering Addresses	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 lb. [.90 kg]
Regulatory Compliance	EN55022 class A, EN55024, UL60950, CE Mark
Warranty	Lifetime

Ordering Information

S2220-1011/S2220-1011-D (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-FX 1310nm MM (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB

S2220-1013 S2220-1013-D (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-FX 1310nm MM (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB

S2220-1014 S2220-1014-D (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-LX 1310nm SM (SC)
[10 km/6.2 mi.] Link Budget: 16.0 dB

S2220-1015 S2220-1015-D (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-FX 1310nm SM (SC)
[40 km/24.8 mi.] Link Budget: 26.0 dB

S2220-1016

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-FX 1550nm SM (SC)
[60 km/37.3 mi.] Link Budget: 29.0 dB

S2220-1017

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-FX 1550nm SM (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB

S2220-1035

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-FX 1550nm SM (SC)
[120 km/77.7 mi.] Link Budget: 36.0 dB

S2220-1040

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

Single Fiber Products

S2220-1029-A1 S2220-1029-DA1 (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-BX-U 1310nm TX/1550nm RX
Bi-Di SM (SC) [20 km/12.4 mi.]
Link Budget: 19.0 dB

S2220-1029-A2

S2220-1029-DA2 (DMI Options)

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-BX-D 1550nm TX/1310nm RX
Bi-Di SM (SC) [20 km/12.4 mi.] Link Budget:
19.0 dB

S2220-1029-B1

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-BX-U 1310nm TX/1550nm RX
Bi-Di SM (SC) [40 km/24.8 mi.] Link Budget:
25.0 dB

S2220-1029-B2

10/100/1000BASE-T (RJ-45) [100 m] to
100BASE-BX-D 1550nm TX/1310nm RX
Bi-Di SM (SC) [40 km/24.8 mi.]
Link Budget: 25.0 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]