

Stand-alone Gigabit Ethernet Remotely Managed NID

10/100/1000Base-T to 1000Base-X with OAM/IP-Based Management



S3220-1040

Features

- MEF 9, 14 and 21 certified
- IEEE 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)
- Auto-MDI/MDIX
- Auto-Negotiation
- Pause
- Transparent Link Pass Through
- Far-End-Fault (FEF)
- 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
- SNTP
- TFTP
- RADIUS client
- RMON counters for each port
- Bandwidth profiling
- DMI Optical Management
- Cable diagnostic function for copper ports

The ION S3220 is a stand-alone managed Network Interface Device (NID) that provides an interface between 10/100/1000Base-TX ports and 1000Base-SX/LX ports, allowing users to manage their links while integrating fiber optic cabling into 10/100/1000 copper environments. As a remotely managed device, the S3220 can be managed individually via an IP address or it can be managed in-band, over the fiber when linked to a C3220 card installed in a managed ION chassis. With advanced features like IEEE 802.3ah Link OAM, VLAN, QoS, SSH/SSL, jumbo frame support, and bandwidth allocation, the S3220 offers a variety of methods for the secure delivery of Ethernet services in business and mobile backhaul applications.

Specifications

| | |
|-------------------|---|
| Standards | IEEE 802.3 IEEE 802.3ah IEEE 802.1p IEEE 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" [25 mm] |
| Power Input | 100-240 VAC, 1A |
| Power Output | 12 VDC, 1.25A |
| Environment | Operating: 0°C to +50°C Storage: -25° to +85°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft. |
| Weight | 2 lbs. [0.90 kg] |
| MTBF | With Power Supply: 65,000 Hours (MIL-HDBK-217F) 178,000 Hours (Bellcore) |
| | Without Power Supply: 250,000 Hours (MIL-HDBK-217F) 687,500 Hours (Bellcore) |
| Certifications | EN55022 Class A, EN55024, UL60950, CE Mark |
| Warranty | Lifetime |

Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: S3220-1013-NA
-NA = Country Code
 -NA = North America, -LA = Latin America
 -EU = Europe, -UK = United Kingdom
 -SA = South Africa, -JP = Japan
 -OZ = Australia, -BR = Brazil



Ordering Information

S3220-1014
 10/100/1000Base-T (RJ-45) [100 m]
 to 1000Base-LX 1310nm single mode (SC)
 [10 km/6.2 mi.] Link Budget: 10.5 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 Slots

***S3221-1040-T**
 10/100/1000Base-T (RJ-45) [100 m]
 to (2) 100/1000Base-x Open SFP Slots,
 Extended Operating Temp Range

Optional Accessories (sold separately)

SFP Modules

Mounting Options (sold separately)

WMBL
 Wall Mount Bracket 4" [102 mm]

WMBD
 DIN Rail Bracket 5" [127 mm]

RMS19-SA4-02
 4-Slot Media Converter Shelf

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

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

S3221-1040-T must use extended temperature SFP modules in order to meet the -40° to +65°C operating temperature range.

Features Continued

- SSH
- Telnet
- Command Line Interface (CLI)
- Web management
- Focal Point Management
- SNMP v1, v2c, and v3
- USB port for basic setup
- Management VLAN