

S3220 Series

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
- 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
- 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 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 and 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 advanced features including – IEEE 802.3ah Link OAM, VLAN, QoS, SSH/SSL, jumbo frame support and bandwidth allocation.

Applications include: Ethernet in the First Mile (EFM), Fiber to the Premises (FTTP), E-Line Services (EPL & EVPL), and Enterprise Markets.

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 (S322x-10xx) Operating: -40°C to +65°C (S3221-1040-T) Storage: -25° to +85°C (S322x-10xx) Storage: -40° to +85°C (S3221-1040-T) Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
Compliance	EN55022 Class A, EN55024, UL60950, CE Mark
Warranty	Lifetime



Ordering Information

S3220-1013

10/100/1000Base-T (RJ-45) [100 m]
to 1000Base-SX 850nm multimode (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

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 Slot

*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

WMBL

Wall Mount Bracket 4" [102 mm]

WMBD

DIN Rail Bracket 5" [127 mm]

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.

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