

## Stand-alone Fast Ethernet Remotely Managed NID

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



S2220-1040

The ION S2220 is a stand-alone managed Network Interface Device (NID) that provides an interface between 10/100/1000Base-T ports and 100Base-FX ports, allowing users to manage their links while integrating fiber optic cabling into 10/100/1000 copper environments. As a remotely managed device, the S2220 can be managed individually via an IP address or it can be managed in-band, over the fiber when linked to a C2220 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 S2220 offers a variety of methods for the secure delivery of Ethernet services in business and mobile backhaul applications.

### 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
- SNMP
- TFTP
- RADIUS client
- RMON counters for each port
- Bandwidth profiling
- DMI Optical Management

### Specifications

Standards	IEEE 802.3 IEEE 802.3ah IEEE 802.1p IEEE 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" [82.55 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 Humidity: 5% to 90% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
Certifications	EN55022 class A, EN55024, UL60950, CE Mark
Warranty	Lifetime



### Ordering Information

**S2220-1014**  
10/100/1000Base-T (RJ-45) [100 m] to 100Base-LX 1310nm single mode (SC) [10 km/6.2 mi.] Link Budget: 16.0 dB

**S2220-1040**  
10/100/1000Base-T (RJ-45) [100 m] to 100Base-X SFP Slot (empty)

\*Note all units feature USB port for local management application.

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

Media Converters

### Features (Continued)

- 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

#### 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: S2220-1014-NA

#### -NA = Country Code

- NA = North America
- LA = Latin America
- EU = Europe
- UK = United Kingdom
- SA = South Africa
- JP = Japan
- OZ = Australia
- BR = Brazil