

## Stand-alone Gigabit Ethernet Remotely Managed NID 10/100/1000Base-T to 1000Base-X with OAM/IP-Based Management



S3231-1040

The ION S3230 is a stand-alone managed multi-service Network Interface Device (NID) that provides an interface between 10/100/1000Base-TX ports and 1000Base-SX/LX ports, allowing users to provide SLA-assurance and advanced fault management while integrating fiber optic cabling into 10/100/1000 copper environments. As a remotely managed device, the S3230 can be managed individually via an IP address or it can be managed in-band, over the fiber when linked to a C3230 card installed in a managed ION chassis. With advanced features like IEEE 802.1ag Service OAM, IEEE 802.3ah Link OAM, ITU Y.1731 Performance Monitoring, VLAN, QoS, SSH/SSL, jumbo frame support, and bandwidth allocation, the S3230 offers a variety of methods for the secure delivery of business Ethernet and mobile backhaul deployments.

### Features

- MEF 9, 14 and 21 certified
- IEEE 802.3ah Link OAM
- ITU Y.1731
- IEEE 802.1ag Service 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

### Specifications

|                   |  |
|-------------------|--|
| Standards         | IEEE 802.3<br>IEEE 802.3ah<br>IEEE 802.1ag<br>IEEE 802.1p<br>IEEE 802.1Q   |
| Data Rate         | Copper: 10/100/1000 Mbps<br>Fiber: 1000 Mbps   |
| Filtering Address | 8K MAC Addresses   |
| Max Frame Size    | 10,240 bytes   |
| Dimensions        | Width: 3.25" [82 mm]<br>Depth: 6.5" [165 mm]<br>Height: 1" [25 mm]   |
| Power Input       | 100-240 VAC, 1A  |
| Power Output      | 12 VDC, 1.25A  |
| Environment       | Operating: 0°C to 50°C<br>Storage: -25°C to 85°C<br>Humidity: 5% to 95% (non-condensing)<br>Altitude: 0 – 10,000 ft. |
| Weight            | 2 lbs. [0.90 kg]   |
| Certifications    | EN55022 Class A, EN55024, UL60950, CE Mark   |
| Warranty          | Lifetime   |



### Ordering Information

**S3230-1040**  
10/100/1000Base-T (RJ-45) [100 m]  
to (1) 100/1000Base-X SFP Slot (empty)

**S3231-1040**  
10/100/1000Base-T (RJ-45) [100 m]  
to (2) 100/1000Base-X SFP Slots (empty)

Optional Accessories (sold separately)

#### SFP Modules

Mounting Options (sold separately)

#### WMBL

Wall Mount Bracket 4" [102 mm]

#### RMS19-SA4-02

4-Slot Media Converter Shelf

Note: all units feature USB port for local management application and have SGMII support for use with 10/100/1000Base-T copper SFPs.

### Features Continued

- 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

#### 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: S3230-1040-NA  
**-NA = Country Code**  
 -NA = North America  
 -LA = Latin America  
 -EU = Europe  
 -UK = United Kingdom  
 -SA = South Africa  
 -JP = Japan  
 -OZ = Australia  
 -BR = Brazil