

C3220 Series

ION Gigabit Ethernet Remotely Managed NID Module

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



C3220-1040

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.

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

Specifications

Standards	IEEE 802.3 IEEE 802.3ah IEEE 802.1P IEEE 802.1Q IEEE 802.1X
Data Rate	Copper: 10/100/1000 Mbps Fiber: 1000 Mbps
Filtering Addresses	8K MAC Addresses
Max Frame Size	10,240 bytes
Dimensions	Width: 0.86" [22 mm] Depth: 6.5" [165 mm] Height: 3.4" [86 mm]
Power Consumption	4.5 Watts
Environment	Environment specs are dependent on the chassis chosen Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	1 lb. [0.45 kg]
Compliance	EN55022 class A, EN55024, CE Mark
Warranty	Lifetime

Ordering Information

C3220-1013

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

C3220-1014

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

*C3220-1040

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

*C3221-1040

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

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

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

Optional Accessories (sold separately)

SFP Modules

USB Cables

