The ComNet CNGE11FX3TX8MS has three 100/1000Base-FX SFP* ports and eight 10/100/1000Base-TX ports. Two of the SFP ports support 2.5 Gbps SFPs for high speed communication in bandwidth intensive applications. All SFP ports utilize ComNet SFP modules for fiber and connector type and distance. The intrusion event is reported back to the operator using SNMP. The series offers multiple Ethernet redundancy protocols which protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network. The ComNet exclusive Port Guardian feature provides additional cyber security protection by enabling physical port lockout in the event that an existing cable is disconnected and prevents a potential network incursion using common spoofing techniques. The switch provides advanced IP-based management that can limit the maximum bandwidth for each connected IP device, allowing the user to adjust usage. The CNGE11FX3TX8MSPOE models provide eight electrical ports supporting up to thirty watts of power. On the CNGE11FX3TX8MSPOEHO model, four of the eight PoE ports can support up to sixty watts of PoE power. All PoE ports are IEEE802.3at compliant.

FEATUERES

› 3 × 100/1000Base-FX SFP
› 8 × 10/100/1000Base-TX RJ45
› 2 × SFP ports support 2.5 Gbps SFP modules for high speed communication
› CNGE11FX3TX8MSPOE provides 8 × IEEE802.3at compliant 30 W PoE+ ports
› CNGE11FX3TX8MSPOEHO provides 4 × IEEE802.3at compliant 30 W PoE+ ports and 4 × IEEE802.3at compliant 60 W PoE++ ports
› CNGE11FX3TX8MSPOE/24 provides low voltage 12-24 VDC PoE booster function
› Fast Redundancy/Recovery - MSTP/RSTP/STP (IEEE802.1s/w/D) and ERPS G.8032
› Layer 3 static routing
› Supports IPv6 new internet protocol version
› Provided HTTPS/SSH protocol enhances network security
› Supports Device Binding security function
› Supports SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
› Supports ACL, 802.1x User Authentication for security
› Supports 9.6K Bytes Jumbo Frame
› Web-based, Telnet and Console (CLI) configuration, and Windows-based (eVision) monitoring
› Designed for wall or DIN rail mount installations

SOFTWARE FEATURES

› Port Guardian prevents network intrusion through intelligent physical port lockout
› STP/RSTP/MSTP (IEEE 802.1D/w/s)
› Ethernet Ring Protection Switching (ERPS) (G.8032)
› Quality of Service (802.1p) for real-time traffic
› VLAN (802.1Q) with VLAN tagging and GVRP supported
› IGMP v2/v3 (IGMP snooping support) and MLD v1/v2 for filtering multicast traffic
› Supports IP-based bandwidth management
› Supports application-based QoS management
› Port configuration, status, statistics, monitoring, security
› DHCP Client/Server, DHCP Snooping, DHCP Relay
› Custom User Access Rights (15 Levels)
› Static and LACP Link Aggregation
› Supports Loop Protection function
› Multicast VLAN Registration (MVR)
› Supports IP Multicast Profile (IPMC)
› Link Layer Discovery Protocol (LLDP)
› Voice VLAN support
› UPNP (universal plug and play)

* Small Form-Factor Pluggable Module. Sold separately.
CNGE11FX3TX8MS Series

Environmentally Hardened Managed Layer 2+ Ethernet Switch
3 SFP + 8 Electrical Ports with Optional 30 or 60 Watt PoE

SPECIFICATIONS

Connectors
10/100/1000Base-TX Ports 8 × RJ-45
100/1000Base-X Port 3 × SFP¹
Serial Console Port USB Type B Connector (115200bps, 8, N, 1)
Power 2 × 2-Pin Terminal Block
Fault Relay 3-Pin Terminal Block

Switch Properties
Switching latency 7 µs
Switching bandwidth 28 Gbps
DRAM 1GB
Flash 128Mb
VLANs Voice, Private, Multicast
Max. Available VLANs 256
IGMP multicast groups 128 for each VLAN
Port rate limiting User Defined
Processing Store-and-Forward
Priority Queues 8
Network Redundancy STP RSTP MSTP ERPS
MAC Table 8K MAC Addresses
Jumbo Frame Up to 9.6K Bytes
Static Routing 32 Routes

Security Features
Device Binding security feature
Enable/disable ports, MAC based
port security https/SSH enhance network security
Port based network access control Switch/port based, NAS, ACL, ARP
VLAN (802.1Q) to segregate and inspection and IP sourceguard
secure network traffic AASA radius server authentication
Radius centralized password TACACS+
management SNMPv3 encrypted authentication

Power
Input Power Redundant 12 to 57 VDC (non-PoE model)
Redundant 12 to 24 VDC (POE/24 model)
Redundant 48 to 57 VDC (POE & POEHO models)
Power Consumption <8 W Max, non-PoE
255 W Max w/ PoE+ (POE model)
155 W Max w/PoE+ @ 24 VDC (PoE/24 model)
125 W Max w/PoE+ @ 12 VDC (POE/24 model)
375 W Max w/ PoE++ (POEHO model)
Overload Current Protection Present
Reverse Polarity Protection Present

ORDERING INFORMATION

Part Number Description  SFP Ports¹ RJ45 Ports 30W PoE+ Ports 60W PoE++ Ports
CNGE11FX3TX8MS Industrially Hardened 11 Port Gigabit Managed Ethernet Switch 3 8 0 0
CNGE11FX3TX8MSPOE Industrially Hardened 11 Port Gigabit Managed Ethernet Switch 3 8 0 0
CNGE11FX3TX8MSPOE24 Industrially Hardened 11 Port Gigabit Managed Ethernet Switch, 12.24 VDC Input 3 8 0 0
CNGE11FX3TX8MSPOEHO Industrially Hardened 11 Port Gigabit Managed Ethernet Switch 3 8 4 4

Included Accessories
DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included with CNGE11FX3TX8MS only, for benign 0 to 50ºC applications. Hardened power supply available, consult factory)

ComNet Recommended Power Supply for PoE Units (Not Included, consult factory)

User selection of ComNet SFP (see SFP Modules data sheet for product numbers and compatibility before ordering)

[¹] Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

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