

Comnet CNGE12FX4TX8MSPOE/TS 12-port All Gigabit Hardened Auto DOS/DDoS Protection High Security Managed Traffic Switch with POE

ComNet Switch Model	CNGE12FX4TX8MS/TS	CNGE12FX4TX8MSPOE/TS
Physical Ports		
RJ-45 ports	8 10/100/1 000Base-T(X) Auto MDI/ MDIX	8 10/100/1 000Base-T(X) Auto MDI/ MDIX with PSE Ports
SFP ports	4 100/1000Base-X	
Technology		
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1 p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)	
PoE Support	No PoE Support	IEEE 802.3at PoE specification (up to 30 Watts per port for PSE). Total power budget is 240 Watts
MAC Table	8k	
Priority Queues	8	
Processing	Store-and-Forward	
Switch Properties	Switching latency: 7 us Switching bandwidth: 24 Gbps Max. Number of Available VLANs: 256 IGMP multicast groups: 128 for each VLAN Port rate limiting: User Define	
Jumbo frame	Up to 9.6K Bytes	
Security Features	Device Binding security feature Enable/disable ports, MAC based port security Port based network access control (802.1x) Single 802.1x and Multiple 802.1x MAC-based authentication QoS assignment Guest VLAN MAC address limit TACACS+ VLAN (802.1 Q) to segregate and secure network traffic Radius centralized password management SNMPv3 encrypted authentication and access security Https / SSH enhance network security Web and CLI authentication and authorization IP source guard	
Software Features	IEEE 1588v2 clock synchronization IEEE 802.1 D Bridge, auto MAC address learning/aging and MAC address (static) MSTP (RSTP/STP compatible) Redundant Ring (C-Ring) with recovery time less than 30ms over 250 units TOS/Diffserv supported Quality of Service (802.1 p) for real-time traffic VLAN (802.1 Q) with VLAN tagging Modbus TCP IGMP v2/v3 Snooping IP-based bandwidth management Application-based QoS management Port configuration, status, statistics, monitoring, security DHCP Server/Client/Relay SMTP Client DOS/DDOS auto prevention	

Network Redundancy	C-Ring	
	MSTP (RSTP/STP compatible)	
	Legacy Ring	
	G.8032 ERPS	
RS-232 Serial Console Port	RS-232 in RJ-45 connector with console cable. 115200bps, 8, N, 1	
LED indicators		
Power (PWR)	Green: Power indicator	
Ring Master (R.M.)	Green: Indicates that the system is operating in C-Ring Master mode	
C-Ring (Ring)	Green: Indicates that the system operating in C-Ring mode Green Blinking: Indicates that the Ring is broken.	
RJ-45 Port	Green for Link/Act indicator	
SFP Port	Green for port Link/Act.	
PoE	N/A	Blue : PoE enabled LED x 8
Power		
Power Input	12-24 VDC from traffic detector rack	
PoE Power Input	N/A	48-57 VDC (2-pin screw terminal connector on front panel)
Power consumption	18 Watts (Typ., PoE Load Not Included)	
Overload current protection	Present	
Physical Characteristic		
Enclosure	NEMA TS2 traffic detector rack design	
Dimension (W x D x H)	2.23 x 4.51 x 8.08 in (5.67 x 11.45 x 20.53 cm)	
Weight	750 g	
Environmental		
Storage Temperature	-40■ to 85■C	
Operating Temperature	-40■ to +75■C	
Operating Humidity	5% to 97% Non-condensing	