

Comnet CNGE3FE8MS Ethernet Switch with 8x 10/100TX plus 3x 100/1000FX Ports

Connectors	
10/100Base-TX Ports	8 x RJ-45
100/1000Base-X Port	3 x SFP ¹
Serial Console Port	USB connector w/ console cable. 115200bps, 8, N, 1
Power	2 x 2-Pin Terminal Block
Fault Relay	3-Pin Terminal Block
Switch Properties	
Switching latency	7 µs
Switching bandwidth	7.6 Gbps
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	4
Network Redundancy	STP RSTP MSTP ERPS
MAC Table	8K MAC Addresses
Jumbo Frame	Up to 9K Bytes
Security Features	
Device Binding security feature	
Enable/disable ports, MAC based port security	
Port based network access control (802.1x)	
VLAN (802.1Q) to segregate and secure network traffic	
Radius centralized password management	
SNMPv3 encrypted authentication and access security	
https / SSH enhance network security	
Switch/port based, NAS, ACL, ARP inspection and IP sourceguard	
AAA radius server authentication	
TACACS+	
Power	
Input Power	Redundant 12 to 57 VDC (non-PoE model) / Redundant 48 to 57 VDC (PoE models)
Power Consumption	15 W (typical, non-PoE) / 255 W Max w/ PoE+ (CNGE3FE8MSPOE) / 375 W Max w/ PoE++ (CNGE3FE8MSPOEHO)
Overload Current Protection	Present
Mechanical	
Indicating LEDs	Power Indicator / Power Fault Indicators
	Fault Indicator / RJ45 Port Indicator
	SFP Port Indicator / PoE Indicators
Size (H x W x D)	6.0 x 3.5 x 4.5 in (15.24 x 8.89 x 11.43 cm)
Installation	DIN-Rail Mount
Weight	2.6 lb / 1.5 kg
Environmental	
Storage Temperature	-40 to 85° C
Operating Temperature	-40 to +75° C
Operating Humidity	5% to 95% Non-condensing
MTBF	>100,000 hours
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 802.3at for Power Sourcing Equipment (PSE) and PoE up to 30 watts per port (CNGE3FE8MSPOE and CNGE3FE8MSPOEHO Only)	
IEEE 802.1p for COS (Class of Service)	
IEEE 802.1Q for VLAN Tagging	
IEEE 802.1D for STP (Spanning Tree Protocol)	
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)	
Regulatory Compliance	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
Rail	EN50121-4