comnet
Communication Networks

Commercial Grade Managed Ethernet Switch: (8) 10/100TX Power Over Ethernet (PoE) Ports + (2) 10/100/1000TX or 100/1000FX SFP Ports

CWGE2FE8MSPOE

ValueLine
Performance and Value

POWER SUPPLY INCLUDED	SFP FLEXIBILITY	PoE 15W PoE IEEE802.3af	GIGABIT ETHERNET 2	10/100 ETHERNET 8

The ComNet™ CWGE2FE8MSPOE commercial grade managed Ethernet switch provides eight ports of 10/100 BASE-TX PoE and two ports of 10/100/1000TX or 100/1000FX transmission. These units are available for use with either conventional CAT-5e copper or optical transmission media. The eight electrical ports support the 10/100 Mbps Ethernet IEEE 802.3 protocol, and auto-negotiating and auto-MDI/MDIX features are provided for simplicity and ease of installation. All eight ports support IEEE.802.3af based POE (Max total PoE budget is 77W). Two ports are 10/100/1000 configurable for copper or fiber media for use with multimode or single mode optical fiber, selected by optional SFP modules. These network managed layer 2 switches are optically (100/1000 BASE-FX) and electrically compatible with any IEEE 802.3 compliant Ethernet devices. Plug-and-play design ensures ease of installation, and no electrical or optical adjustments are ever required. One switch, or two switches positioned side-by-side, can be mounted within any standard 19-inch equipment rack using the ComNet RMB Rack Mount Bracket Adaptor Kit (sold separately).

FEATURES

› Commercial Grade

› Ambient operating temperature range: 0˚ C to +50˚ C

› 10/100 BASE-TX and 100/1000 BASE-FX compatible PoE ports

› Flexible optics configuration via SFP plug-in modules

› Fully configurable through CLI, web-based or SNMP network management

› IGMP Snooping V1/V2 for multicast filtering and IGMP Query V1/V2

› Port based VLAN (IEEE 802.1Q)

› Rapid Spanning Tree protocol (IEEE 802.1W)

› Port Based Security

› Power Supply Included

› Five Year Warranty

APPLICATIONS

› Industrial and Factory Automation

› Integrated IP-Video and Data Transmission Networks

› Industrial Security Access Control Systems

* Small Form-Factor Pluggable Module. Sold separately.

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SPECIFICATIONS

Software

Configuration	SNMP v1/v2c/v3, Web, Telnet, CLI
VLAN	IEEE 802.1Q, GVRP, Port based VLAN
Redundancy	X-Ring, Dual Homing and Couple Ring, IEEE802.1d STP and IEEE802.1w RSTP
Security	IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control
Traffic Control	IGMP Snooping/ Query for multicast group management Port trunk, Static IEEE 802.1p QoS/CoS/ToS/DSCP priority queuing, LACP port trunk, IEEE 802.3x flow control
Diagnostics	Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-mail Alert, SNMP Trap, RMON
PoE Management	PoE Enable/Disable, Power limit by classification, Power limit by management, Power feeding priority, Detect Legacy Signature
IEEE Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.3ad, IEEE802.1d, IEEE802.1w, IEEE802.1p, IEEE802.1Q, IEEE802.1x, IEEE802.3af

PoE pin assignment

RJ45 port #1 - #8 support IEEE802.3af End-point, Alternative A mode.
Positive (VCC+): RJ45 pin 1, 2
Negative (VCC-): RJ45 pin 3, 6

Power[1]

Power consumption[1]	81W
Operating Power	110/240VAC with external power supply unit provided.
Max Power Per PoE Port	15.4W max.
Total PoE Power Budget*	77W max.
Switch Architecture	Back-plane: 5.6Gbps
Packet Buffer	1Mbits
MAC Address	8K
Flash ROM	4Mbytes
DRAM	32Mbytes
Port Connector	10/100TX: RJ45 × 8
	Gigabit Combo: 10/100/1000TX RJ45 × 2
	100/1000FX SFP × 2
	Console port: RS232 × 1

Mechanical

Dimensions (L × W × H)	8.6 × 5.5 × 1.7 in (21.7 × 14.0 × 4.3 cm)
Cooling	Natural Convection Cooling

Environment

Operating Temperature	0º to +50ºC
Storage Temperature	-40º to +70ºC
Operating Humidity	0 to 95% (non-condensing)
Storage Humidity	0 to 95% (non-condensing)
MTBF	>100,000hrs

Indicating LEDs

System: Power
Per port: Link/Activity, Speed, PoE
Gigabit Combo port: Link/Activity

Certification

EMC	CE, FCC Class A
	EN55022
	EN55024
	EN61000-4-2 (ESD)
	EN61000-4-3 (Radiated RFI)
	EN61000-4-4 (Burst)
	EN61000-4-5 (Surge)
	EN61000-4-6 (Induced RFI)
	EN61000-4-8 (Magnetic Field)
	EN61000-4-11 (Voltage Dip)
	EN61000-3-2
	EN61000-3-3
Shock	IEC60068-2-27
Freefall	IEC60068-2-32
Vibration	IEC60068-2-6

[1] 81 watt power supply included. For PoE powered devices, please note the following limitation: the external power supply furnished with this equipment provides a maximum of 15.4 watts of power per port, and can only provide this power to a maximum of five (5) of the eight ports available. If all eight ports are to supply power to the PoE powered devices, the maximum power available is limited to 9.6 watts per port.

AGENCY COMPLIANCE

FC PART 15 COMPLIANT   CE   RoHS COMPLIANT   N24621

ORDERING INFORMATION

Part Number	Description
CWGE2FE8MSPOE	Commercial Grade Managed Ethernet Switch with (8) 10/100TX + (2) 10/100/1000TX RJ45 or 100/1000FX SFP Ports
Options/Accessories	SFP Models for optical interface (see SFP Data Sheet for model information)
	Side-by-Side Rack Mount Bracket Adaptor Kit – with mounting hardware (Optional, order model RMB-3)
	Rack Mount Bracket Adaptor Kit – with mounting hardware (Optional, order model RMB-2)

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. 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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