comnet
Communication Networks

Commercial Grade Managed Layer2 Ethernet Switch with (8) 10/100/1000TX PoE+ Ports + (2) 1000FX SFP Ports

CWGE10FX2TX8MSPOE

POWER SUPPLY	PoE	SFP	1G GIGABIT	ETHERNET
INTERNAL	30 W POE+	FLEXIBILITY	ALL GIGABIT	8 + 2

The ComNet CWGE10FX2TX8MSPOE has eight 10/100/1000Base-TX RJ-45 PoE+ ports and two 1000Base-FX SFP ports. All SFP ports utilize ComNet SFP* modules for fiber, connector type and distance. The IEEE802.3-compliant unit offers multiple Ethernet redundancy protocols (RSTP & STP) which protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network. The CWGE10FX2TX8MSPOE implements ACLs to restrict access to your sensitive network resources by filtering specific packets based on TCP/UDP ports, source and destination IP addresses or particular network devices. The eight electrical ports support the 10/100/1000 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 30W IEEE.802.3at based PoE+.

FEATURES

› 10 Gbps Ports: 8 × 10/100/1000Base-TX RJ-45 PoE+ Ports
　　　　　　　2 × 1000Base-FX SFP Ports

› IGMP Snooping V2/V3 for multicast filtering

› Supports Device Binding security function

› Internal 100-240 VAC Power Supply

› Supports SNMP v1/v2c & RMON & 802.1Q VLAN Network Management

› Supports ACL for security

› Supports 10K Bytes Jumbo Frame

› Multiple notifications warn of unexpected events

› Web-based, Telnet, Console (CLI), and Windows-based utility (eConsole) monitoring

› IEEE 802.3AZ Energy Efficient Ethernet-Compliant

› Supports LLDP Protocol

› 19 inch rack mountable design

› RSTP/STP (IEEE 802.1w/D)

Small Form-Factor Pluggable Module. Sold separately.

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SPECIFICATIONS

Connectors

10/100/1000Base-TX Ports	8 × RJ-45
1000Base-X Ports	2 × SFP[1]
Serial Console Port	RS-232 in RJ-45 connector with console cable. 38400bps, 8, N, 1

Switch Properties

Switching latency	7 µs
Switching bandwidth	20 Gbps
L2 Forwarding	14.9 Mpps
Packet Buffer	4.1 Mbit
Max. Available VLANs	256
IGMP multicast groups	256
Port rate limiting	User Defined
Processing	Store-and-Forward
Priority Queues	4
Network Redundancy	Dual Homing STP RSTP
MAC Table	8K MAC Addresses
Jumbo Frame	Up to 10K Bytes

Network Function

Port-based Mirroring	IGMP Snooping v1/v2/v3
IGMP Querier	DHCP Relay/Option 82
Link Aggregation	Link Layer Discovery Protocol
STP/RSTP	Loop Detection, Auto Recovery Timer

Network Management

Local Console	CLI through Console and Telnet
Web-based GUI	SNMP v1/v2c
System Log	LLDP
SNMP Trap	RMON
Monitor alarm	DDMI support
Firmware upgrade	Configuration Backup/Restore
Management VLAN	E-Mail Alerts

Network Security

Access Control List (L2/L3/L4)
Port Security
802.1x

Traffic Management and QoS

Rate Limitation	Tag Based/Port-Based VLAN
256 Active VLAN Support	802.1p Priority Queues per port
Traffic Classification	Network Storm Control

AGENCY COMPLIANCE

FC PART 15 COMPLIANT   CE   RoHS

Low Power Consumption

Power

Input Power	100~240 VAC at AC Input with power cord
Power Consumption	6 Watts (with no PoE)
	131 Watts (with full PoE Load)
Overload Current Protection	Present

Power over Ethernet

Max Power Per PoE Port	30 W
Total PoE Power Budget	125 W
PoE Supported Mode	Mode A
PoE Features	PoE Schedule
	PoE Active Ping Check
	PoE Power Delay

Mechanical

Indicating LEDs	Power, Post, PoE Max Power, 1000Mb, Link/Act
Size	12.99 × 8.03 × 1.67 in (33 × 20.4 × 4.2 cm)
Installation	Desktop or 19-inch Rack Mount
Cooling	Passive Cooling
Weight	5.2 lb / 2.4 kg

Environmental

MTBF	>100,000 hours
Storage Temperature	–40º C to 70º C
Operating Temperature	0º C to 50º C
Operating Humidity	10% to 90% non-condensing

Ethernet Standards

IEEE 802.3 for 10Base-T
IEEE 802.3u for 100Base-TX
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 802.1p 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 802.1AB for LLDP (Link Layer Discovery Protocol)
IEEE 802.3az Energy Efficient Ethernet
IEEE 802.3at Power over Ethernet

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
Safety	EN60950-1

ORDERING INFORMATION

Part Number	Description	1000Base-X Ports[1]	10/100/1000Base-TX Ports
CWGE10FX2TX8MSPOE	Commercial Grade 10 Port Gigabit Managed Ethernet Switch with 30 W PoE+	2	8

[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.