



The ComNet™ CWGE26FX2TX24MSPOE is an extended temperature commercial grade Managed Ethernet Switch. It provides IEEE 802.3at PoE to twenty-four 10/100/1000BASE-T(X) two of which are also gigabit combo ports supporting 100/1000Fx SFP Modules. A further two-100/1000FX SFP* ports are also included. Up to 400 watts of PoE power is available for distribution across all 24 TX ports. All SFP ports utilize ComNet SFPs for fiber and connector type and distance. The CWGE26FX2TX24MSPOE is a redundant switch offering multiple Ethernet redundancy protocols to protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network.

FEATURES

- › Supports 26 Gigabit Ports:
 - 2 100/1000Base-FX SFP Ports
 - 2 Gigabit Combo Ports
 - 22 10/100/1000BASE-T(X) Ports
- › IEEE 802.3at Compliant for PSE. Up to 30W of PoE+ power available per port. 400W total PoE power available.
- › Supports Private VLAN
- › IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- › Supports multiple redundant network rings
- › Supports Jumbo frame up to 9.6K Bytes
- › HTTPS/SSH protocol to enhance network security
- › Supports SNMP client
- › Supports application-based QoS management
- › Supports Device Binding security function
- › Supports ACL and 802.1x User Authentication for security
- › Power supply for switch operation and PoE power sourcing is completely self-contained within the switch
- › STP/RSTP/MSTP (IEEE 802.1s/w/D) supported
- › Windows utility, eConsole, supports centralized management, and is web-based configurable, or by Telnet and console (CLI) ports
- › Supports IP-based bandwidth management
- › SNMP V1/V2c/V3, RMON and 802.1Q VLAN for secure network management
- › Fastest Redundant Ethernet Ring: C-Ring. Recovery time <30ms, with up to 250 switches within the ring
- › Low-profile 1-RU (1.75-inch) high rack-mountable chassis mounts within any standard 19-inch equipment rack
- › Operating Temperature: -10° to +60° C (+14° to +140° F)
- › Multiple warning notifications for unexpected events
- › Supports LLDP (Link Layer Discovery Protocol)
- › Five Year Warranty

APPLICATIONS

- › HD Surveillance
- › High-Port Count Ethernet Hub Locations for commercial networks

* Small Form-Factor Pluggable Module. Sold separately.

SPECIFICATIONS

Ethernet Ports

RJ-45 Ports	(22) 10/100/1000Base-TX, with Auto MDI/MDIX with PSE
Combo Ports	(2) 10/100/1000Base-Tx, with Auto MDI/MDIX with PSE or (2) 100/1000Base-Fx SFP
SFP ¹ Ports	(2) 100/1000Base-FX

Ethernet Standards Supported

IEEE 802.3 for 10Base-T
 IEEE 802.3u for 100Base-TX and 100Base-FX
 IEEE 802.3z for 1000Base-X
 IEEE 802.3ab for 1000Base-T
 IEEE 802.3at for PoE up to 30 watts per port with a total power budget of 400 watts
 IEEE 802.3x for Flow control
 IEEE 802.3ad for LACP (Link Aggregation Control Protocol)
 IEEE 802.1D for STP (Spanning Tree Protocol)
 IEEE 802.1p 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)

Switch Properties

Switching Latency	7 μs
Switching Bandwidth	52 Gbps
Max. VLANs Available	256
IGMP Multicast Groups	128 for each VLAN
Port Rate Limiting	User Defined
MAC Table	8000 MAC addresses available
Priority Queues	4
Processing	Store-and-Forward
Jumbo Frame	Up to 9.6K Bytes

Security Features

Device Binding Security
 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 enhanced network security

Software Features

STP/RSTP/MSTP (IEEE 802.1D/w/s)
 C-Ring Redundant Ring: Recovery time <30ms over 250 units in a network
 TOS/Diffserv Supported
 Quality of Service (802.1p) for Real-Time Traffic
 VLAN (802.1Q) with VLAN Tagging and GVRP Supported
 IGMP Snooping for Multicast Filtering
 Port Configuration, Status, Statistics, Monitoring, & Security
 DHCP Server / Client support
 IP-Based Bandwidth Management
 Application-Based QoS Management

Network Redundancy

C-Ring
 Multiple Redundant Network Rings
 RSTP/STP/MSTP

RS-232 Serial Console Port

RS-232 in DB9 connector with console cable (included) 115200bps, 8, N, 1.

Indicating LEDs

Power	For AC operating power
Ring Master	Indicates switch is operating in the C-Ring Master mode
C-Ring (Ring)	Indicates switch is operating in the C-Ring mode. A flashing LED in this mode indicates the network ring has broken or is faulty.
Fault	A Fault condition exists in the switch
PoE	PSE (Power Sourcing Equipment) power output
RJ-45 Port	Bi-color LED indicates 1000 Mbps or 10/100 Mbps port/link activity
SFP Port	Port/link activity

Regulatory Approvals

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
Mechanical Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6

[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

SPECIFICATIONS

PoE pin assignment RJ45 port #1 - #24 support IEEE802.3at End-point Alternative A mode.
Positive (VCC+): RJ45 pin 1, 2
Negative (VCC-): RJ45 pin 3, 6

Power
Operating Voltage Range 100 to 240 VAC, 50-60 Hz..
Power Consumption, Typical 36 Watts. 436 watts with maximum PD demand of 400 watts total with 24 ports loaded.

Electrical & Mechanical

Current Protection	Overload Current Protected
Enclosure	1-RU high, 19-inch rack-mountable
Size (L×W×H)	13.46 × 16.97 × 1.73 in (34.2 × 43.1 × 4.4 cm)
Shipping Weight	<13 lbs./6 kg

Environmental

MTBF	>100,000 hours
Operating Temp	-10° to +60° C (+14° to +140° F)
Storage Temp	-40° to +85° C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing) ²



ORDERING INFORMATION

Part Number	Description
CWGE26FX2TX24MSPOE	(22) 10/100/1000 BASE-T(X) + (2) Gigabit Combo Ports + (2) 100/1000 BASE-FX with Power over Ethernet (PoE+)
Included Accessories	Rack-mount installation kit Console cable AC Power cable
Options	[2] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) User selection of SFP (See ComNet data sheet SFP Modules and SFP Compatibility matrix)

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.

