

**ValueLine**  
Performance and Value



The ComNet™ CWGE2FE24MODMS Managed Ethernet Switch chassis provides up to twenty-six ports of Ethernet connectivity through the use of three eight-port expansion modules and two rear-mounted fixed combo ports. This Ethernet switch is easily configurable by selecting, sold separately, eight port modules that allow for all copper, or all optical with SFP\* modules making the CWGE2FE24MODMS switch available for use with either conventional UTP copper or fiber media. The twenty-four modular ports support the 10/100 Mbps electrical or 100Mbps optical Ethernet IEEE 802.3 protocol. Auto-negotiating and auto-MDI/MDIX features are provided for simplicity and ease of installation on electrical ports. Two additional ports are Gigabit combo SFP ports. These network managed layer 2 switches are optically and electrically compatible with IEEE 802.3 compliant Ethernet devices. Plug-and-play design ensures ease of installation, and no electrical or optical adjustments are ever required. These units are rack mountable.

## FEATURES

- › Commercial Grade
- › Ambient operating temperature range: 0° C to +45° C (Extended Temperature model is available)
- › 10/100 BASE-TX and 100 BASE-FX compatible
- › Flexible Ethernet interface configuration via plug-in modules
- › Fully configurable through web-based or SNMP network management
- › IGMP Snooping V1/V2 for multicast filtering and IGMP Query V1/V2
- › Tagged VLAN (IEEE 802.1Q)
- › Rapid Spanning Tree protocol (IEEE 802.1w)
- › Internal Power Supply 100 to 240VAC Input
- › Status indicating LEDs provide rapid indication of critical operating parameters
- › Five Year Warranty

\* SFP = Small Form-Factor Pluggable Module

## SPECIFICATIONS

### Benefits

System Interface/Performance	RJ45 port support Auto MDI/MDI-X Function Store-and-Forward Switching Architecture Back-plane (Switching Fabric): 8.8Gbps 4Mbits Packet Buffer K MAC Address Table
3-Slot Module Hot-Swappable	8 Port 10/100TX module 8-Port 100Mbps SFP (SFP) module
VLAN	Port Based VLAN Support 802.1 Q Tag VLAN
X-Ring	X-Ring, Dual Homing and Couple Ring Topology Provides redundant backup feature and a recovery time < 300ms
IEEE 802.3ad Port Trunk with LACP	
Support up to 256 Policy ACL (Access Control List)	
QoS (Quality of Service)	Support IEEE 802.1p Class of Service, Per port provides 4 priority queues Port Base, Tag Base and Type of Service Priority
Support IEEE 802.1ab LLDP	
Port Mirror: Monitor traffic in switched networks	TX Packet only RX Packet only Both of TX and RX Packet
System Event Log	System Log (Local/Remote Server) SMTP e-mail Alert
Security	Port Security: MAC address entries/filter IP Security: IP address security management to prevent unauthorized intruder. Login Security: IEE E802.1X/RADIUS
SNMP Trap	Device cold start Power status Authentication failure Port Link up/Link down
IGMP with Query mode for Multi Media Application	
TFTP Firmware Update and System Configure Restore and Backup	
Broadcast/Multicast Packet Filter Control	
IEEE 802.1w Rapid Spanning Tree	

### Standard Compliance

IEEE 802.3ad Port trunk with LACP
IEEE 802.1d Spanning tree protocol
IEEE 802.1w Rapid Spanning tree protocol
IEEE 802.1p Class of service
IEEE 802.1q VLAN Tagging
IEEE 802.1x User authentication
IEEE 802.1ab LLDP

### Hardware Specifications

Switch Architecture	Back-plane (Switching Fabric): 8.8Gbps
Connector*	RS232 console: Female DB-9 8-port 10/100TX module: RJ45 8-port 100 FX SFP module 2 Gbit Copper + 2 SFPCoMo: 2 × RJ45 + 2 × 3.3v SFP built-in
Packet Buffer	4Mbits
Mac Address	8K MAC address table with auto learning function
Flash ROM	4Mbytes
DRAM	16Mbytes
Jumbo Frame	9022 bytes (Gigabit ports only)
LED	System Power(Green ) 8 10/100TX module: Link/Activity (Green), Full duplex/collision(Amber) 8 100Base-FX module: Link (Green)/Activity (Blink) SFP: Link/Activity(Green), 1000Mbps (Green)
Power Supply	100~240VAC, 50 /60Hz, 0.8A (maximum)
Power Consumption	50 Watts (maximum)
Operating Humidity	5% to 95% (Non-condensing)
Operating Temperature	0°C to 45°C -40° to 75° C model available
Storage Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40°C to 70°C
Ventilation	2 × DC cooling fan with fail detection
Size (W × D × H)	17.3 × 11.0 × 1.7 in (44.0 × 28.0 × 4.4 cm)
Installation	19" Rack Mount
EMI	FCC Class A, CE
Safety	UL, cUL, CE/EN60950-1

### Software Features

Management	SNMP v1 v2c, v3/ Web/Telnet/CLI/RMON1 Management
MIB	RFC 3418 SNMP MIB, RFC 1213 MIBII, RFC 2011 MIB SNMP v2, RFC 1493 Bridge MIB, RFC 2674 VLAN, RFC 1215 Trap MIB, RFC 1643 Ethernet like, RFC 1757 RMON1, RSTP MIB, LLDP MIB, Private MIB
SNMP Trap	Cold start trap, Link down/Link up trap, Authentication fail trap, Fan fail trap, Power event trap
X-Ring	X-Ring, Dual Homing and Couple Ring Topology Provides redundant backup feature and a recovery time <300ms
Configuration Upload and Download	System quick installation and backup by TFTP

<p><b>Port Trunk</b></p> <p><b>Spanning Tree</b></p> <p><b>VLAN</b></p> <p><b>Quality of Service</b></p> <p><b>Class of Service</b></p> <p><b>IGMP</b></p> <p><b>Port Security</b></p> <p><b>Port Mirror</b></p> <p><b>Bandwidth Control</b></p>	<p>Support IEEE802.3ad with LACP function. Up to 13 trunk groups, trunk member up to 4 ports and include 2 uplink ports</p> <p>IEEE802.1d spanning Tree, IEEE802.1w Rapid Spanning tree protocol</p> <p>Port based VLAN, up to 256 groups IEEE 802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4094. GVRP up to 256 groups</p> <p>The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Different Service</p> <p>Support IEEE802.1p class of service, per port provides 4 priority queues</p> <p>Supports IGMP V1 and V2 snooping. IGMP Snooping for Multi-Media application, IGMP group supports 256 groups and IGMP query</p> <p>Support 50 entries of MAC address for static MAC and another 50 for MAC filter</p> <p>Supports 3 mirroring types: RX, TX, Both packets</p> <p>Per port support ingress rate limiting and egress rate shaping control. The rate limiting and rate shaping can be setting from 0~100Mbps</p>	<p><b>Access Control List (ACL) IP Security</b></p> <p><b>DHCP</b></p> <p><b>DNS</b></p> <p><b>System Log</b></p> <p><b>SNTP</b></p> <p><b>SMTP</b></p> <p><b>LLDP</b></p> <p><b>Firmware Upgrade</b></p>	<p>Support up to 256 policy control lists Support IP address security to prevent unauthorized intruder.</p> <p>DHCP Client/Server</p> <p>Provides DNS client feature and supports primary and Secondary DNS server</p> <p>Provides remote storage ability and view the log by Web/Telnet/SNMP interface. Maximum entry support 1000 records</p> <p>Supports SNTP to synchronize system clock by Internet</p> <p>System supports 6 mail accounts and 1 Mail server</p> <p>Supports IEEE 802.1ab Link Layer Discovery Protocol</p> <p>TFTP and Console firmware upgradeable</p>
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[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



**ORDERING INFORMATION**

Part Number	Description
CWGE2FE24MODMS/Chassis	3 Slot Managed Switch – Chassis Only
CWGE2FE24MOD/8TX	8 port 10/100TX module with RJ45 receptacles
CWGE2FE24MOD/8SFP	8 port 100Mbps module with SFP receptacles
Included Accessories	100-240VAC, 50/60Hz Internal Power Supply (CWGE2FE24MODMS/Chassis only)
Options	/HT Extended operating temperature model available

