

Commercial Grade 9 Port Gigabit Managed Ethernet Switch with (7) 10/100/1000TX + (2) Gigabit Combo SFP* Ports

CWGE9MS













The ComNet™ CWGE9MS Managed Ethernet Switch provides transmission of (7) 10/100/1000TX and (2) Gigabit combo SFP ports. These units are available for use with either conventional CAT-5e copper or optical transmission media. Ports 1 - 7 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. Ports 8 - 9 are 10/100/1000 Mbps RJ45 copper ports or 1000 Mbps SFP ports for use with multimode or single mode optical fiber without need for configuration, selected by optional SFP modules. These network managed layer 2 switches are optically 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
- > 10/100/1000 BASE-TX or 1000 BASE-FX compatible
- > Flexible optics configuration via SFP plug-in modules
- > Fully configurable through 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
- > 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): 18Gbps

1Mbits Packet Buffer 8K MAC Address Table

IGMP with Query mode for Multi Media Application

VLAN Port Based VLAN

Support 802.1 Q Tag VLAN

GVRP

Spanning Tree Support IEEE802.1d Spanning Tree

Support IEEE802.1w Rapid Spanning Tree

Port Trunk with LACP

X-Ring X-ring, Dual Homing, and Couple Ring Topology

Provides redundant backup feature and a

recovery time < 300ms

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

Bandwidth Control Ingress Packet Filter and Egress Rate Limit

Broadcast/Multicast Packet Filter Control

Port Mirror Monitor traffic in switched networks.

TX Packet only RX Packet only

Both of TX and RX Packet

System Event Log System Log Server/Client

SMTP e-mail Alert

Security Port Security: MAC address entries/filter

IP Security: IP address security management to

prevent unauthorized intruder.

Login Security: IEEE802.1X/RADIUS TFTP

SNMP Trap Device cold start

Authentication failure X-ring topology changed Port Link up/Link down

Power Status

TFTP Firmware Upgrade and System Configure Restore and Backup

IEEE Standards IEEE802.3 10BASE-T

IEEE802.3u 100BASE-TX IEEE802.3z Gigabit fiber IEEE802.3ab 1000Base-T

IEEE802.3x Flow Control and Back Pressure
IEEE802.3ad Port Trunk with LACP
IEEE802.1d Spanning Tree Protocol
IEEE802.1w Rapid Spanning Tree
IEEE802.1p Class of Service
IEEE802.1q VLAN Tagging
IEEE 802.1x User Authentication

Hardware Specifications

Switch Architecture Back-plane (Switching Fabric): 18Gbps

Packet throughput ability

(Full-Duplex) 26.7Mpps @64bytes

Packet Buffer 1Mbits

Mac Address 8K MAC address table

Flash ROM 4Mbytes
DRAM 32Mbytes

Connector 10/100/1000TX: 7 × RJ45 with Auto MDI/MDI-X

function

Gigabit fiber: 2 × SFP¹ socket Console port: RS232 connector

Network Cable 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable

EIA/TIA-568 100-ohm (100m)

100Base-TX: 2-pair UTP/STP Cat. 5 / 5E cable

EIA/TIA-568 100-ohm (100m)

Protocol CSMA/CD

LED Per unit: Power (Green)

Per port: Link/Activity (Green), Speed 1000(Green) SFP: Link/Activity (Green)

Power Supply 100 ~ 240VAC, 50/60Hz internal

Power Consumption 19.3 Watts

Operating Humidity 5% to 95% (Non-condensing)

Operating Temperature 0° to 50°C
Storage Temperature -40° to 70°C

Case Dimensions $8.5 \times 5.5 \times 1.7$ in $(21.7 \times 14.0 \times 4.3 \text{ cm})$

Fan Number 1

Installation 10" Rack Mountable
EMI FCC Class A, CE
Safety CE/EN60950-1

Software Features

VLAN

Management SNMP v1 v2c, v3/ Web/Telnet/CLI Management

SNMP MIB RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP

MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643, RFC 1757, RSTP MIB, Private MIB

Port Based VLAN

IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up

to 4K, VLAN ID can be assigned from 1 to 4094.)

GVRP (256 Groups)

Port Trunk with LACP LACP Port Trunk: 4 Trunk groups/Maximum 4

trunk members

Spanning Tree Support IEEE802.1d Spanning Tree and

IEEE802.1w Rapid Spanning Tree

X-Ring Support X-ring, Dual Homing, and Couple Ring

Provide redundant backup feature and the

recovery time below 300ms

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SPECIFICATIONS (CONT'D)

Quality of Service The quality of service determined by port, Tag and IPv4 Type of service, IPv4/ IPv6Different Class of Service Support IEEE802.1p class of service, per port provides 4 priority queues Port Security Support 100 entries of MAC address for static MAC and another 100 for MAC filter Port Mirror Support 3 mirroring types: RX, TX and Both packet **IGMP** Support IGMP snooping v1,v2 256 multicast groups and IGMP query **IP Security** Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. **Login Security** Support IEEE802.1X Authentication/RADIUS **Bandwidth Control** Support ingress packet filter and egress packet The egress rate control supports all of packet type and the limit rates are 100K~250Mbps Ingress filter packet type combination rules are Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all of packet. The packet filter rate can be set from 100k to 250Mbps Flow Control Support Flow Control for Full-duplex and Back Pressure for Half-duplex

Sy	stem Log	Support System log record and remote system log server
SN	1TP	Support SMTP Server and 6 e-mail accounts for receiving event alert
SN	MP Trap	Up to 3 Trap stations Cold start, Port link up, Port link down, Authentication Failure, Private Trap for power status, X-ring topology change
DH	ICP	Provide DHCP Client/ DHCP Server
DN	IS	Provide DNS client feature and support Primary and Secondary DNS server.
SN	TP	Support SNTP to synchronize system clock in Internet
Fir	mware Update	Support TFTP firmware upgrade, TFTP backup and restore.
Со	nfiguration upload	
an	d download	Support binary format configuration file for system quick installation
G.6.		meet or exceed fiber standard ITU-T needs to meet or exceed fiber standard
AGENCY (COMPLIANCE ROHS ROHS W246	夏

ORDERING INFORMATION

Part Number	Description
CWGE9MS	Commercial Grade Managed Ethernet Switch with (7) 10/100/1000TX + (2) Gigabit Combo SFP Ports, Internal Power Supply
Optional	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)



