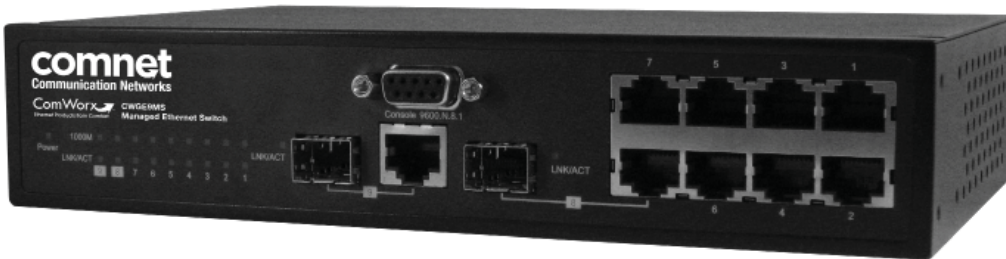


commercial grade 9 port gigabit managed Ethernet switch
with (7) 10/100/1000TX + (2) gigabit combo SFP ports



Description

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. The CWGE9MS incorporates LED indicators for monitoring the operating status of the managed switch and network. 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 100-240VAC Input
- Five Year Warranty

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
- Provide redundant backup feature and the recovery time below 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

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

specifications

hardware specifications

Switch Architecture	Back-plane (Switching Fabric): 18Gbps
Packet throughput ability (Full-Duplex):	26.7Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet port
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 × SFP* 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) Mini GBIC: 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 Dimension	8.5 × 5.5 × 1.7 inches 217mm × 140mm × 43mm
Fan Number	1
Installation	10" Rack Mountable
EMI	FCC Class A, CE
Safety	UL, cUL, CE/EN60950-1

* 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

software features

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
VLAN	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
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/ IPv6Different Service
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

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.



specifications

software features, cont'd

Bandwidth Control

Support ingress packet filter and egress packet limit
 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

System Log

Support System log record and remote system log server

SMTP

Support SMTP Server and 6 e-mail accounts for receiving event alert

SNMP 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

DHCP

Provide DHCP Client/ DHCP Server

DNS

Provide DNS client feature and support Primary and Secondary DNS server.

SNTP

Support SNTP to synchronize system clock in Internet

Firmware Update

Support TFTP firmware upgrade, TFTP backup and restore.

Configuration upload and download

Support binary format configuration file for system quick installation

PART NUMBER	DESCRIPTION
CWGE9MS	Commercial Grade Managed Ethernet Switch with (7) 10/100/1000TX + (2) Gigabit Combo SFP Ports
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)



3 CORPORATE DRIVE | DANBURY, CT 06810 | USA
 T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET
 8 TURNBERRY PARK ROAD | GILDERSOME | MORLEY | LEEDS, UK LS27 7LE
 T: +44 (0)113 307 6400 | F: +44 (0)113 253 7462 | INFO-EUROPE@COMNET.NET