



The **comnet by acre CWX28F4T24MPB** is a commercial grade, managed Ethernet Switch. It provides IEEE 802.3bt PoE to eight 10/100/1000BASE-T(X) ports and IEEE 802.3at PoE to sixteen 10/100/1000BASE-T(X) ports. Four 100M/1G/2.5G/10G SFP+ ports are also included. Up to 540 watts of PoE power is available for distribution across all 24 TX ports. Comnet has a full offering of SFPs for fiber, connector type and distance. The CWX28F4T24MPB supports Layer 2+ full management software features for PoE control, network control, management, monitor and many other security features

SPECIFICATIONS

CONNECTORS

10/100/1000BASE-TX	24 × RJ-45 PORTS WITH AUTO MDI/MDIX AND PSE
100M/1G/2.5G/10G	4 × SFP+ ¹ PORTS
CONSOLE PORT	RJ45

SWITCH PROPERTIES

SWITCHING LATENCY	7 US
SWITCHING BANDWIDTH	128 Gbps
FORWARDING RATE	95.232 Mbps
MAX. VLANS AVAILABLE	4000
IGMP MULTICAST GROUPS	1024
PORT RATE LIMITING	USER DEFINED
MAC TABLE	32000 MAC ADDRESSES AVAILABLE
PRIORITY QUEUES	8 PER PORT
PROCESSING	STORE-AND-FORWARD
JUMBO FRAME	UP TO 9.6K BYTES

Key Features

- ✓ Virtual Stacking to allow management via one IP address
- ✓ Comnet Monitor compatible
- ✓ Fast Redundancy/Recovery to IEEE standards to support multiple rings
- ✓ PoE with 540W budget
- ✓ PoE powered device alive check and PoE scheduling
- ✓ Advanced security features including 802.1x / Device Binding / ACL
- ✓ Switch supports Layer 3 Static Route
- ✓ Supports Voice and Private VLAN
- ✓ Supports IPV6 new Internet protocol version
- ✓ IGMP v2 / v3 Multicast support
- ✓ HTTPS/SSH protocol to enhance network security
- ✓ SNMP / LLDP support for network discovery
- ✓ Supports SNTP client for accurate time management

POE FEATURES

POE POWER OUTPUT	PER PSE PORT: IEEE 802.3bt MAX. 90W
NUMBER OF PSE PORT	PORTS 1-8
POE TYPE	TYPE 4: 3/4/5/6(+), 1/2/7/8(-)
POE POWER OUTPUT	PER PSE PORT: IEEE 802.3af/at MAX. 15.4W/30W
NUMBER OF PSE PORT	PORTS 9-24
POE TYPE	MODE A: 1/2(+), 3/6(-)
MAX. POE BUDGET	540W
FUNCTIONS	PD ALIVE CHECK, CLASSIFICATION, SCHEDULING
MANAGEMENT (PER PORT)	ENABLE/DISABLE, PRIORITY, POWER LEVEL, OVERLOADING PROTECTION

SECURITY

FEATURES	MANAGEMENT SYSTEM USERNAME / PASSWORD PROTECTION USER PRIVILEGES (UP TO 15 LEVELS) DEVICE BINDING ENABLE/DISABLE PORTS MAC BASED PORT SECURITY PORT-BASED NETWORK ACCESS CONTROL 802.1X VLAN (802.1Q): TO SEGREGATE AND SECURE NETWORK TRAFFIC SNMPV3 ENCRYPTED AUTHENTICATION AND ACCESS SECURITY HTTPS/SSH ENHANCED NETWORK SECURITY IP-BASED BANDWIDTH MANAGEMENT APPLICATION-BASED QOS MANAGEMENT TOS/DIFFSERV ACL (L2/L3/L4) IP SOURCE GUARD RADIUS (AUTHENTICATION, AUTHORIZATION, ACCOUNTING) TACACS+ HTTP & SSL (SECURE WEB) SSH V2.0 (SECURED TELNET SESSION) MAC/IP FILTER
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POWER

OPERATING VOLTAGE RANGE	100 TO 240 VAC, 50-60 HZ (INTERNAL POWER SUPPLY)
POWER CONSUMPTION, TYPICAL	MAX 30 WATTS. 570W WITH MAX PD DEMAND OF 540W
CURRENT PROTECTION	OVERLOAD CURRENT PROTECTED

NETWORK

IP	DHCP (SERVER / CLIENT SUPPORT)
REDUNDANCY	RSTP (802.1W) / STP (802.1D) / MSTP (802.1S)
SEGREGATION	VLAN TAGGING AND GVRP SUPPORTED (802.1Q), MAX VLANS 4000, TAGGED BASED, PORT BASED, Q-IN-Q, VOICE
AGGREGATION	LACP (802.3AD), STATIC TRUNK (MAX AGGREGATION GROUPS 14, MAX 8 PORTS PER GROUP)
MULTICAST	IGMP SNOOPING V1/2/3, (1024 IGMP GROUPS) IGMP STATIC MULTICAST ADDRESSES (1024 ADDRESSES) IPV6 MLD SNOOPING (1024 GROUPS) MLD STATIC MULTICAST ADDRESSES (1024 ADDRESSES) QUERIER / IMMEDIATE LEAVE SUPPORT
STORM CONTROL	BROADCAST/MULTICAST/UNKNOWN UNICAST PROTECTION
LOOP PROTECTION	SINGLE DEVICE LOOP GUARDING.
L3 SUPPORT	STATIC ROUTE
STACKING SUPPORT	VIRTUAL

MANAGEMENT

FEATURES	SNMP, CLI, WEB BASED, TELNET (WITH ACCESS MANAGEMENT FILTERING) FIRMWARE UPGRADE VIA HTTP DUAL FIRMWARE IMAGES CONFIGURATION DOWNLOAD/UPLOAD SNMP (V1/V2C/V3) RMON (1, 2, 3 & 9 GROUPS) DHCP (CLIENT/RELAY/OPTION82/SNOOPING/SERVER) TFTP (TRIVIAL FILE TRANSFER PROTOCOL) NTP/LLDP IPV6 CONFIGURATION
DIAGNOSTICS	CABLE DIAGNOSTICS SYSTEM EVENT/ERROR LOG PORT MIRRORING

ELECTRICAL & MECHANICAL

INDICATING LEDS	POWER, POE, PSE, LINK/ACT
ENCLOSURE	1-RU HIGH, 19-INCH RACK-MOUNTABLE
SIZE (L×W×H)	13.46 × 16.97 × 1.73 IN (33.0 × 44.0 × 4.4 CM)
NET WEIGHT	13.1 LBS / 5.9 KG
SHIPPING WEIGHT	13.2 LBS / 6 KG

ENVIRONMENTAL

MTBF	>100,000 HOURS
OPERATING TEMP	0° C TO +50° C
STORAGE TEMP	-20° C TO +80° C
RELATIVE HUMIDITY	10% TO 90% (NON-CONDENSING)

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

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

IEEE 802.3bt FOR POE UP TO 90 WATTS PER PORT

IEEE 802.3AZ FOR ENERGY EFFICIENT ETHERNET

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 802.1V FOR PROTOCOL VLAN

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)

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
CWX28F4T24MPB	(24) 10/100/1000 BASE-T(X) + (4) 100M/1G/2.5G/10G W/ POWER OVER ETHERNET (POE++), 600 W POWER SUPPLY

INCLUDED ACCESSORIES

RACK-MOUNT INSTALLATION KIT, AND AC POWER CABLE

Options(1) User selection of Comnet SFP (Extra charge, see SFP Modules data sheet for product numbers and compatibility before ordering)