CWX28F4T24MPB

Commercial Managed 28-Port BT PoE Switch



The Comnet 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 full management software features for PoE control, network control, management, monitoring and many other security features.

540W POE BUDGET	28 PORT 24× TX + 4× SFP+	802.3bt 8 PORTS OF 90W TYPE 4 POE
10G 4 SFP+ UPLINKS	Layer 3 Support STATIC ROUTING	1 RU 19" RACK MOUNT

APPLICATIONS

- **IP Surveillance**
  PoE cameras, NVRs, and edge video across commercial & campus networks.
- **Enterprise & Campus LAN**
  High-density access layer with 10G SFP+ uplinks to the core.
- **Access Control**
  Door controllers, readers, and intercoms powered and managed over one switch.
- **Wireless & IoT**
  802.3bt access points, sensors, and PoE devices requiring up to 90W.

Key Features

- Virtual Stacking to allow management via one IP address
- Fast Redundancy / Recovery to IEEE standards to support multiple rings
- PoE with 540W budget
- PoE powered-device alive check and PoE scheduling
- Advanced security 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
- TAA & NDAA Compliant
- 5-Year Limited Warranty

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 TYPE 232

SWITCH PROPERTIES	
SWITCHING LATENCY	7 µS
SWITCHING BANDWIDTH	128 GBPS
FORWARDING RATE	95.232 MPPS
MAX. VLANS AVAILABLE	4000
IGMP MULTICAST GROUPS	1024
PORT RATE LIMITING	USER DEFINED
MAC TABLE	32,000 MAC ADDRESSES AVAILABLE
PRIORITY QUEUES	8 PER PORT
PROCESSING	STORE-AND-FORWARD
JUMBO FRAME	UP TO 9.6K BYTES

MANAGEMENT	
FEATURES	SNMP, CLI, WEB BASED, TELNET (WITH ACCESS MANAGEMENT FILTERING) FIRMWARE UPGRADE VIA HTTP DUAL FIRMWARE IMAGES CONFIGURATION DOWN/UPLOAD SNMP (V1 / V2C / V3) RMON (1, 2, 3 & 9 GROUPS) DHCP (CLIENT / RELAY / OPTION 82 / SNOOPING / SERVER) TFTP (TRIVIAL FILE TRANSFER PROTOCOL) NTP / LLDP IPV6 CONFIGURATION
DIAGNOSTICS	CABLE DIAGNOSTICS SYSTEM EVENT / ERROR LOG PORT MIRRORING

POE FEATURES	
PORTS 1–8	PER PSE PORT: IEEE 802.3BT MAX. 90W · TYPE 4 · 3/4/5/6(+), 1/2/7/8(−)
PORTS 9–24	PER PSE PORT: IEEE 802.3AF/AT MAX. 15.4W / 30W · 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

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

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 LB / 5.9 KG
SHIPPING WEIGHT	13.2 LB / 6.0 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)

[1] Requires sold-separately Comnet SFP+ module. See the SFP Modules datasheet for product numbers, fiber type, connector, and distance compatibility before ordering.

Specifications (continued)

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

REGULATORY APPROVALS	
EMI	FCC PART 15, CISPR (EN55022) CLASS A
EMS	EN61000-4-2 (ESD), -4-3 (RS), -4-4 (EFT), -4-5 (SURGE), -4-6 (CS), -4-8, -4-11
MECHANICAL SHOCK	IEC 60068-2-27
FREE FALL	IEC 60068-2-32
VIBRATION	IEC 60068-2-6

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

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	INCLUDED / OPTIONS
CWX28F4T24MPB	(24) 10/100/1000BASE-T(X) + (4) 100M/1G/2.5G/10G with Power over Ethernet (PoE++), 600W power supply	1) Included: Rack-mount installation kit and AC power cable 2) User selection of Comnet SFP (extra charge — see SFP Modules datasheet for product numbers and compatibility before ordering)



TAA COMPLIANT



NDAA COMPLIANT

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.