



The Comnet CNG7F2T5P is an industrial grade, Layer 2 Ethernet Switch. It offers five 10/100/1000BASE-T(X) ports with IEEE 802.3at 30 W PoE provided to four of the ports. Two 1G SFP¹ ports are also included. Up to 120 watts of PoE power is available for distribution across 4 TX ports. All SFP ports should utilize Comnet SFPs for fiber, connector type and distance.

SPECIFICATIONS

Connectors	
10/100/1000BASE-T(X)	4 × RJ-45 PORTS WITH AUTO MDI/MDIX AND PSE (PORTS 1-4)
10/100/1000BASE-T(X)	1 × RJ-45 PORTS WITH AUTO MDI/MDIX (PORT 5)
1G	2 × SFP ¹ PORTS
POWER (DUAL INPUT)	TERMINAL BLOCK: HEADER/2-WAY/PITCH 5 MM
ALARM RELAY	TERMINAL BLOCK: DRY CONTACT

KEY FEATURES

- IEEE802.3at PoE with 120 W budget.
- Electrical ports support Auto-Negotiation for 10 Mbps, 100 Mbps, or 1000 Mbps full duplex or half duplex data.
- SFP Ports support 1 Gbps full duplex data
- Automatic MDI/MDI-X crossover
- Voltage transient protection on all power and signal input/ output lines provides protection from power surges and other voltage transient events.
- Redundant DC inputs for uninterrupted operation in the event of a loss of operating power or a power supply failure
- Supports alarm relay
- Daisy-chain through two built-in SFP ports
- TAA and NDAA Compliant
- Limited Lifetime Warranty

SWITCH PROPERTIES

SWITCHING LATENCY	7 μ s
SWITCHING BANDWIDTH	14 GBPS
FORWARDING RATE	8.9 MPPS
MAC TABLE	4000 MAC ADDRESSES AVAILABLE
PROCESSING	STORE-AND-FORWARD
JUMBO FRAME	UP TO 9.6K BYTES

POE FEATURES

POE POWER OUTPUT	PER PSE PORT: IEEE 802.3AT MAX. 30 W
NUMBER OF PSE PORTS	PORTS 1-4
MAX. POE BUDGET	120 W

ALARM RELAY

RESPONSE TIME	5 MS TYPICAL
TYPE	FORM A CONTACTS (RATED 1 A @ 24 VDC, NON-RESISTIVE LOADS)

POWER⁽²⁾

OPERATING VOLTAGE RANGE	REDUNDANT DUAL INPUT 50-56 VDC
POWER CONSUMPTION	MAX 4.5 W (NO POE) UP TO 124.5 W MAX (W/ MAX PD DEMAND OF 120 W)
CURRENT PROTECTION	REVERSE POLARITY PROTECTION OVERLOAD CURRENT PROTECTED

ELECTRICAL & MECHANICAL

INDICATING LEDS	POWER, POE PD, LINK/ACT, ALARM RELAY
ENCLOSURE	DIN RAIL
SIZE (L×W×H)	1.43 × 5.6 × 4.1 IN (3.62 × 14.2 × 10.5 CM)
NET WEIGHT	1.17 LBS. / 0.531 KG
SHIPPING WEIGHT	1.57 LBS. / 0.712 KG

ENVIRONMENTAL

MTBF	>511,000 HOURS (TELCORDIA (BELLCORE), GB) AT 50 °C
OPERATING TEMP	-40 °C TO +75 °C
STORAGE TEMP	-40 °C TO +85 °C
RELATIVE HUMIDITY	5% TO 95% (NON-CONDENSING)

REGULATORY APPROVALS

SAFETY	LVD (EN62368-1)
EMC	CE (EN55032/EN55035), FCC
EMI	FCC PART 15B CLASS A, CISPR 32
EMS	IEC 61000-4-2 IEC 61000-4-4 (EFT) IEC 61000-4-5 (SURGE)
MECHANICAL SHOCK	EN 60068-2-27
FREE FALL	EN 60068-2-32
VIBRATION	EN 60068-2-6

ETHERNET STANDARDS SUPPORTED

IEEE 802.3I FOR 10BASE-T

IEEE 802.3U FOR 100BASE-TX

IEEE 802.3AB FOR 1000BASE-T

IEEE 802.3Z FOR 1000BASE-X

IEEE 802.3X FOR FLOW CONTROL AND BACK PRESSURE

IEEE 802.3AF FOR POE UP TO 15.4 WATTS PER PORT

IEEE 802.3AT FOR POE UP TO 30 WATTS PER PORT

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
CNG7F2T5P	(5) 10/100/1000 BASE-T(X) + (2) 1G, W/ POWER OVER ETHERNET (POE+), DUAL DC POWER INPUT

ACCESSORIES

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

Options(2) Select Comnet Power supply based on site requirements

AGENCY COMPLIANCE



PART 15
COMPLIANT



RoHS

