# 10/100/1000 Mbps Gigabit Switch with PoE+



# CNGE6FX2TX4POE











FLEXIBILITY

**ALL GIGABIT** 

2FX + 4TX



The ComNet CNGE6FX2TX4POE is a hardened six port PoE+ switch. It provides four 10/100/1000Base-T(X) copper ports plus one TX/SFP\* combo port and one 100/1000Base-FX SFP ports. Ports 1 through 4 can optionally supply up to thirty (30) watts of power per port based on the IEEE 802.3af/at standard. It is designed for 48-56VDC input sources for IP surveillance, traffic monitoring, and a broad range of other applications. It can also be daisy-chained to other devices to cover wider areas using the two fiber ports.

### **FEATURES**

- > 10/100/1000 Mbps Ethernet
- 4 × 10/100/1000 BASE-T/TX electrical ports
- 1 × Combo Port
- 1 × 100/1000 BASE-X SFP port
- > Electrical ports support Auto-Negotiation for 10Mbps, 100Mbps or 1000Mbps, full duplex or half duplex data.
- > SFP Ports support 100 or 1000 Mbps full duplex data
- > IEEE802.3at Power over Ethernet (PoE+)
- > 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
- > Lifetime Warranty

## **APPLICATIONS**

- > 10/100/1000 Mbps Ethernet
- › Perimeter Protection Surveillance Systems
- > Traffic monitoring
- > IP Video

<sup>\*</sup> SFP = Small Form-Factor Pluggable Module

#### **SPECIFICATIONS**

**Fthernet** 

Data Interface Data Rate

10/100/1000 Mbps

IEEE 802.3 Compliant

Full Duplex or Half Duplex Electrical Ports/Full

**Duplex Optical Port** 

Electrical Ports 1-4: 30 W Max

Connectors

Optical<sup>1</sup>

Requires selection of sold-separately SFP modules.

See ComNet data sheet for number and description of SFP modules.

**Terminal Block** Power

RJ45 Data

**Switch Properties** 

PoE Pin Assignment

Switching Latency 7 μs Switching Bandwidth 12 Gbps

Processing Store-and-Forward

Jumbo Frame 91e B

**Alarm Relay** 

Response Time 25ms typical (network dependent)

Form A contacts (Rated 1A @ 24 VDC, Type

non-resistive loads)

**Power** 

Dual 48 to 56 VDC PoE Operating Voltage **Power Consumption** 6W max w/out PoE

**Current Protection Reverse Polarity Protection** 

> RJ45 port supports IEEE802.3af/at End-point Positive (VCC+): RJ45 pin 1, 2

Negative (VCC-): RJ45 pin 3, 6

**Electrical & Mechanical** 

Indicating LEDs Optical Link/Data Activity

Electrical Link/Data Activity

Power PoE Status

 $5.6 \times 1.4 \times 4.1$  in  $(14.2 \times 3.6 \times 10.4$  cm) Size

Surface Mount Wall or Flat Surface Screw Attachment

**Shipping Weight** < 2 lb / 0.9 kg

**Environmental** 

MTBF >100,000 hours **Operating Temp** -40° C to +75° C -40° C to +85° C Storage Temp

Relative Humidity 5% to 95% (non-condensing)<sup>2</sup>

**Ethernet Standards** 

IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-TX IEEE 802.3z for 1000BASE-X IEEE 802.3ab for 1000BASE-T IEEE 802.3af for PoE IEEE 802.3at for PoE+

IEEE 802.3x Flow Control and Back Pressure

Certifications

UL 60950-1 Safety Safety LVD (EN62368-1) EMC/EMS CE, FCC, VCCI

FMI FCC Part 15 Subpart B Class A

EN 60068-2-6 Vibration EN 60068-2-27 Shock EN 60068-2-32 Free Fall

AGENCY COMPLIANCE





# ORDERING INFORMATION

**Part Number** Description

CNGE6FX2TX4POE Small Surface Mount 6 Port Gigabit Ethernet Self-managed Switch 2 SFP FX, 4TX with 30W of PoE+ power

Options Power Supply - Extra charge, consult factory

User-selection of SFP or CopperLine CL-SFP modules (Extra charge, see SFP data sheets for product numbers and compatibility before ordering)

NOTE: Specifications are subject to change without notice.

