



CUG-828EAT



Introduction

Overview

The Cobra series CUG-828AT and CUG-828EAT are Industrial 10-port unmanaged PoE/PoE+ switches that come with 8 x 10/100T(X) PoE/PoE+ ports and 2 Gigabit Ethernet SFP ports designed to power up heavy-duty industrial PoE devices such as IP surveillance cameras, wireless access points, digital signage, sensors, IP phones etc. The switches are suitable for industrial networking, security & surveillance, intelligent transportation systems (ITS), military & defense, building automation, factory automation, utility market applications and more. This switch supports standard operating temperature model (-10 to 60°C) and extended operating temperature range models (-40 to 75°C).

Features

High Performance Network Switching Technology

- Complies with IEEE standards
- Provides 8 x 10/100Base-T(X) with RJ-45 connector
- Provides 2 x 1000Base SFP slots
- 8 x PoE/PoE+ ports and each port support power output up to 30 watts per port
- Max. PoE power budget at 240 watts
- Provides DIP switch for alarm setting

Reliable Power Design

- Supports 48VDC redundant power input

- Power reverse polarity protection and overload current protection

Robust Industrial Design

- EN 61000-6-2 and EN 61000-6-4 certified to use in heavy industrial environment
- EN 50121-4 certified for Railway Applications (Track Side)
- Robust industrial design case complies with IP30 housing standard
- Supports operating temperature -10 to 60°C & extended temperature -40 to 75°C
- DIN-Rail or optional wall mounting installation

Specifications

Hardware Specifications

Interface

Total Ports: 10 ports

RJ-45 Ports: 8 x 10/100Base-T(X) auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

Fiber Ports: 2 x 1000Base SFP slot

LEDs: System: Power 1 (Green), Power 2 (Green), Fault (Amber)

RJ-45 Ports: 10/100 Link/Active (Green), Speed 100 (Yellow)

Fiber Ports: Link/Active (Green); PoE: Active (On) / Inactive (Off)

DIP Switch: DIP 1: OFF (Enable power failure alarm) / ON (Disable)

Alarm Contact: 1A@24VDC

Power Requirements

Power Input: 48VDC (44 to 57VDC), redundant dual inputs, (50 to 57VDC recommended for IEEE 802.3at PoE+ application)

Power Consumption: 251W (Full load with PoE), 5.2W (Without PoE)

Power Protection: Reverse polarity protection, overload current protection

PoE

PoE Power Budget: Max. 240W for total PD consumption

PoE Standard: IEEE802.3at / 30W per port; IEEE802.3af / 15.4W per port

PoE Pin Assignment: Endspan, Alternative A

Positive (V+): RJ-45 pin 1, 2 / Negative (V-): RJ-45 pin 3, 6 / Data (1, 2, 3, 6)

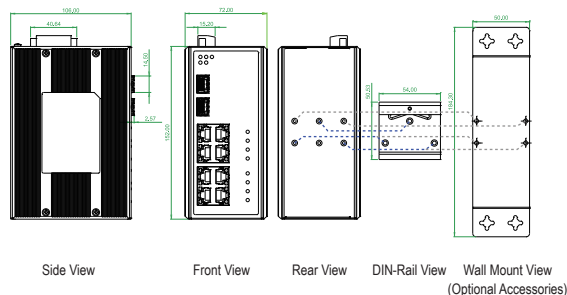
Physical

Dimensions: IP30 standard, 72mm (W) x 152mm (H) x 106mm (D)

Installation: DIN-Rail or optional wall mounting

Environmental

Dimensions (unit=mm)



Operating Temperature: Regular: -10 to 60°C, Extended: -40 to 75°C

Storage Temperature: -40 to 85°C

Operating Humidity: 5% to 95% RH (Non-condensing)

Technical

Standard:

IEEE 802.3 10Base-T Ethernet

IEEE 802.3u 100Base-TX/100Base-FX

IEEE 802.3x Flow Control

IEEE 802.3z Gigabit Fiber

IEEE 802.3af PoE

IEEE 802.3at PoE+

Protocol Technology: CSMA/CD

Switching Architecture: Store and Forward

Regulatory Approvals

EMC: CE, EN 61000-6-2, EN 61000-6-4

EMI: FCC Part 15 Subpart B Class A, CE EN55022 Class A

EMS: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8

Railway Application (Track Side): EN 50121-4 (Certified)

Shock: IEC 60068-2-27

Vibration: IEC 60068-2-6

Free Fall: IEC 60068-2-32

Environmental: WEEE, RoHS

MTBF: 635,446 hours based on Mil-Hdbk-217F, GB

Warranty: 5 years

Ordering Information

CUG-828AT	Industrial 8 x 10/100Base-T(X) + 2 x 1000Base SFP Gigabit Unmanaged PoE/PoE+ Ethernet Switch, -10 to 60°C
CUG-828EAT	Industrial 8 x 10/100Base-T(X) + 2 x 1000Base SFP Gigabit Unmanaged PoE/PoE+ Ethernet Switch, -40 to 75°C