

CUG-428GEAT



Introduction

Overview

CUG-428GEAT (広域温度モデル) と CUG-428GAT (標準温度モデル) は、4ポートの10/100/1000Base-T(X) と 2SFPポートの100/1000Base を搭載、IEEE 802.3z, full/half duplex, Auto MDI/MDI-X対応のRJ-45をサポートするIndustrial 6ポートフルギガビットアンマネージドPoEスイッチです。4ポートのIEEE 802.3af/at PoE/PoE+ が付属しています。このスイッチは、広範な24/48VDC冗長電源入力及び産業アプリケーション用堅牢なIP30筐体でデザインされています。安全性のために、逆極性・過負荷防止・アラームリレーコンタクト仕様となっています。

CUG-428GEAT と CUG-428GAT の注目すべき機能の一つは、PoEデバイスを安定させるため、内蔵高効率パワーブースターによりPoE出力電圧を上昇させ、55VDCでのPoE出力を調整しています。優れたデザインにより、PoE電力距離を100mまで保証します。オリジナルIEEE 802.3af PoE規格により接続されたデバイスに最大15.4ワットのDC電力を提供し、IEEE 802.3at (PoE+) は最大30ワットの電力を供給できます。CUG-428GEAT と CUG-428GAT は、最大120ワットまでのパワーバジェットをサポートしています。

Features

High Performance Network Switching Technology

- Complies with IEEE standards
- Provides 4 x 10/100/1000Base-T(X) with RJ-45 connector
- Provides 2 x 100/1000Base SFP slots
- 4 x PoE/PoE+ ports and each port support power output up to 30 watts per port
- Max. PoE power budget at 120 watts
- Supports flow control and jumbo frame
- Provides DIP switch for broadcast storm protection, alarm setting and fiber port speed adjustment

Reliable Power Design

- Supports 24 to 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: 6 ports

RJ-45 Ports: 4 x 10/100/1000Base-T(X) auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

Fiber Ports: 2 x 100/1000Base SFP slots

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

RJ-45 Ports: 100M (Green), 1000M (Amber), LNK/Active: Green

Fiber Ports: Link/Active (Green)

PoE: Active (Green On), Inactive (Green Off), Fault* (Green Flash)

* The fault conditions are: Overload, Short Circuit, Port Fail at Startup

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

DIP 2: OFF (Enable broadcast storm protection) / ON (Disable)

DIP 3: OFF (1000M SFP on Fiber 2) / ON (100M SFP on Fiber 2)

DIP 4: OFF (1000M SFP on Fiber 1) / ON (100M SFP on Fiber 1)

Alarm Contact: 1A@24VDC

Power Requirements

Power Input: 24 to 48VDC, redundant dual inputs

Power Consumption:

24VDC: 143.3 (Full load with PoE), 23.3W (Without PoE), Booster Efficiency 94~97%

48VDC: 138.2 (Full load with PoE), 18.2W (Without PoE), Booster Efficiency 94~97%

PoE Power Budget: Max. 120W for total PD consumption

Built-in high efficiency power booster to boots up and regulate the output power at 55VDC for PoE/PoE+ requirement, and to stabilize the PDs with guarantee deliver of PoE power up to 100 meters

Power Protection: Reverse polarity protection, overload current protection

Environmental

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 802.3ab 1000Base-T

IEEE 802.3x Flow Control

IEEE 802.3z Gigabit Fiber

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

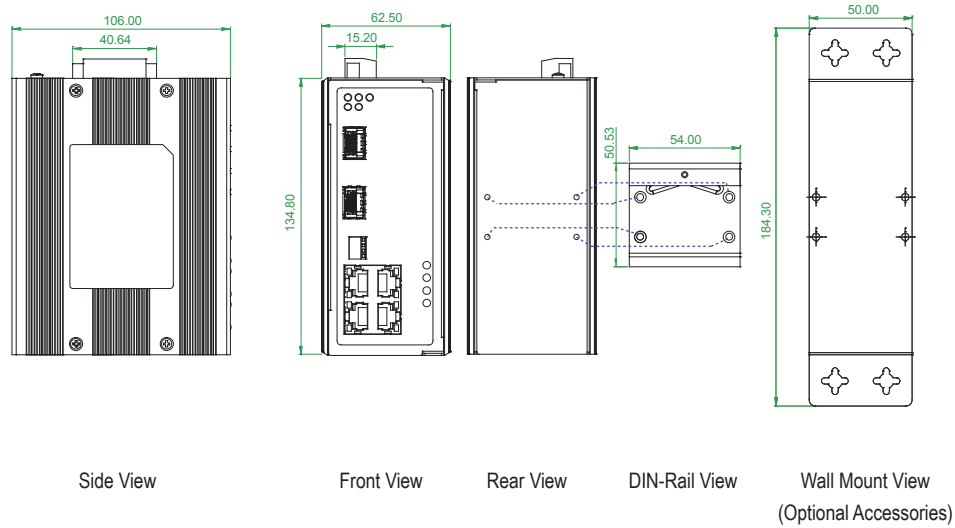
Vibration: IEC 60068-2-6

Free Fall: IEC 60068-2-32

Environmental: WEEE, RoHS

MTBF: 736,988 hours based on Mil-Hdbk-217F, GB

Dimensions (unit=mm)



Ordering Information

CUG-428GAT	Industrial 4 x 10/100/1000Base-T(X) + 2 x 100/1000Base SFP Full Gigabit Unmanaged PoE/PoE+ Ethernet Switch, -10 to 60°C
CUG-428GEAT	Industrial 4 x 10/100/1000Base-T(X) + 2 x 100/1000Base SFP Full Gigabit Unmanaged PoE/PoE+ Ethernet Switch, -40 to 75°C

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