



# CUG-600GEAT



## Introduction

### Overview

CUG-600GEAT (広域温度モデル) と CUG-600GAT (標準温度モデル) は、6ポートの10/100/1000Base-T(X)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-600GEAT と CUG-600GAT 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-600GEAT と CUG-600GAT 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 6 x 10/100/1000Base-T(X) with RJ-45 connector,
- 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 and alarm setting

### 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:** 6 x 10/100/1000Base-T(X) auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

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

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

**Alarm Contact:** 1A@24VDC

#### Power Requirements

**Power Input:** 24 to 48VDC, redundant dual inputs

**Power Consumption:**

24VDC: 142.9 (Full load with PoE), 22.9W (Without PoE), Booster Efficiency 94~97%

48VDC: 139.6 (Full load with PoE), 19.6W (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

#### Physical

**Dimensions:** IP30 standard, 62.5mm (W) x 134.8mm (H) x 106mm (D)

**Installation:** DIN-Rail or optional wall mounting

#### 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

**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:** 649,579 hours based on Mil-Hdbk-217F, GB

**Warranty:** 5 years

## BASIC JAPAN

Basic Japan株式会社 Suginami Tokyo, Japan

Phone: 03-5335-7651

E-mail: mail@basicjp.com

URL: www.basicjp.com