



RUG-118GSEN



Introduction

Overview

RUG-118GSENは、1ギガビットポートの10/100/1000Base-T(X)と1SFPポートを搭載した、厳しい環境に適したスリムな認証済工業用ギガビット-光ファイバコンバータです。SFPポートにより、ギガビットファイバをサポートするファイバモジュールを使用して高速な長距離伝送が可能です。当製品は、逆極性保護機能と過電流保護機能付きデュアル電源入力を備えており、広範な12/24/48VDC電源入力をサポートしています。IP30筐体、広範な動作時温度及びDINレールマウントにより、厳しい環境に適しています。また、鉄道信号に適用される EN 50121-4、情報処理機器の安全性に適用される UL 60950-1、産業用機器に共通して適用されるEMS（電磁気妨害感受）とEMI（電磁気妨害）の認証を受けています。動作時温度は-20~80℃です。

Features

High Performance Network Switching Technology

- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z
- Provides 1 x 10/100/1000Base-T(X) Ethernet port with RJ-45 connector
- Provides 1 x 100/1000Base SFP slot
- Supports dip switch adjustable Link Fault Pass-through (LFP) function
- Supports 9K Jumbo Frame

- Power reverse polarity protection and overload current protection
- Alarm relay design for power or port failure detection

Robust Industrial Design

Reliable Power Design

- Supports 12 to 48VDC redundant power input

- 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 -20 to 80°C
- DIN-Rail or optional wall mounting installation

Specifications

Hardware Specifications

Interface

Total Ports: 2 ports

RJ-45 Port: 1 x 10/100/1000Base-T(X) auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

Fiber Port: 1 x 100/1000Base SFP slot

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

Fiber: LNK/ACT (Green); Speed: 100M (Green), 1000M (Yellow)

LAN: LNK/ACT (Green); Speed: 100M (Green), 1000M (Yellow)

Alarm Contact: 1A@24VDC

DIP Switch:

DIP 1: OFF (Enable Power Alarm) / ON (Disable Power Alarm)

DIP 2: OFF (Enable Port Alarm) / ON (Disable Port Alarm)

DIP 3: OFF (Disable Link Fault Pass-through) / ON (Enable Link Fault Pass-through)

DIP 4: OFF (Enable Switch Mode) / ON (Enable Pass Through Mode)

DIP 5: OFF (SFP: 1000M) / ON (SFP: 100M)

Link Fault Pass-through (LFP): If Copper or Fiber port link down, the converter will force another port to shutdown too.

Environmental

Operating Temperature: -20 to 80°C

Storage Temperature: -40 to 85°C

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

Technology

Standard:

IEEE 802.3 10Base-T Ethernet

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

IEEE 802.3ab 1000Base-T

IEEE 802.3z Gigabit Fiber

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,

Safety: UL 60950-1

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: 1,198,203 hours based on Mil-Hdbk-217F, GB

Warranty: 5 years

Power Requirements

Power Input: 12 to 48VDC (9.6~60VDC), redundant dual inputs

Power Consumption: 4.2 watts

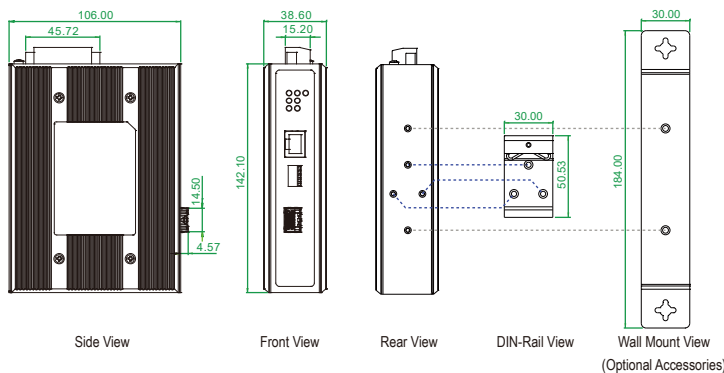
Power Protection: Reverse polarity protection, overload current protection

Physical

Dimensions: IP30 standard, 38.6mm (W) x 142.1mm (H) x 106mm (D)

Installation: DIN-Rail or optional wall mounting

Dimensions (unit=mm)



Ordering Information

RUG-118GSEN

Industrial 1 x 10/100/1000Base-T(X) + 1 x 100/1000Base SFP Slim Full Gigabit Ethernet to Fiber Media Converter, -20 to 80°C