

# **RUE-111SENM02**













## | | Introduction | | | |

#### Overview

RUE-111SENM02 are Industrial Slim Ethernet to Fiber Converters with one 10/100Base-T(X) Ethernet port and one 100Base-FX multi-mode SC fiber port. With the fiber port, these converters transmit data at high speed for long distances up to 2km. RUE-111SENM02 is equipped with a terminal block to provide dual power inputs with reverse polarity protection and designed with wide input power of 12/24/48VDC. Its IP30 housing protection, wide operating temperature and DIN-Rail mounting makes these converters suitable for harsh industrial applications. These products are EN 50121-4 certified for railway traffic and UL 60950-1 certified for safety in information technology equipment. The RUE-111SENM02 has an operating temperature of -40 to 80°C.

## >>> Features

#### **High Performance Network Switching Technology**

- Complies with IEEE 802.3. IEEE 802.3u. IEEE 802.3x
- Provides 1 x 10/100Base-T(X) Ethernet port with RJ-45 connector
- Provides 1 x 100Base-FX multi-mode fiber port with SC connector
- Supports dip switch adjustable Link Fault Pass-through (LFP) function

#### Reliable Power Design

- Supports 12 to 48VDC redundant power input
- Power reverse polarity protection and overload current protection

• Alarm relay design for power or port failure detection

#### **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 -40 to 80°C
- DIN-Rail or optional wall mounting installation

### >> Specifications

#### Hardware Specifications

#### Interface

Total Ports: 2 ports

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

Fiber Port: 1 x 100Base-FX Multi-mode with SC connector

LEDs: Power 1 (Green), Power 2 (Green), Fault (Red), Fiber (Green), 100 (Amber),

LAN (Green)

Alarm Contact: 1A@24VDC

DIP Switch:

DIP 1: OFF (Auto: Auto Negotiation Mode) / ON (Force: Auto Negotiation Mode)

DIP 2: OFF (Copper: 100Mbps) / ON (Copper: 10Mbps)
DIP 3: OFF (Copper: Full Duplex) / ON (Copper: Half Duplex)

DIP 4: OFF (Disable Link Fault Pass-through) / ON (Enable Link Fault Pass-through)

DIP 5: OFF (Disable Flow Control) / ON (Enable Flow Control) DIP 6: OFF (Switch Mode) / ON (Pass through Converter mode)

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

#### **Power Requirements**

Power Input: 12 to 48VDC, redundant dual inputs

Power Consumption: 2.9 watts

Power Protection: Reverse polarity protection, overload current protection

#### **Physica**

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

Installation: DIN-Rail or optional wall mounting

#### **Environmental**

Operating Temperature: -40 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 802.3x 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

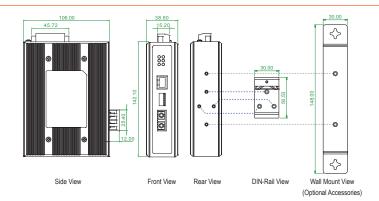
Railway Application (Track Side): EN 50121-4 (Certified)

Shock: IEC 60068-2-27 Vibration: IEC 60068-2-6 Free Fall: IEC 60068-2-32 Environmental: WEEE, RoHS

MTBF: 1,199,572 hours based on Mil-Hdbk-217F, GB

Warranty: 5 years

# Dimensions (unit=mm)





RUE-111SENM02 Industrial 1 x 10/100Base-T(X) + 1 x Multi-mode 100Base-FX Slim Ethernet to Fiber SC Media Converter, -40 to 80°C (2km)