



WUE-800EAT



Introduction

Overview

The WUE-800EAT is an unmanaged switch designed to meet the requirements of EN 50155, EN 50121-4 for secured transmission in Transportation Automation such as railways, rolling stock, vehicles and moving machine applications. The WUE-800EAT is an Industrial 8x10/100Base-T(X) M12 UTP with 8 PoE/PoE+ injector ports classified as Power source equipment (PSE) and supports an extended operating temperature of -40 to 80°C. It comes with IP67 ingress protection against dust, humidity, oil and water submersion. It uses M12 connectors to ensure water tight, robust connections and to guarantee reliable connections against environmental disturbances, such as vibration and shock. For safety, it supports 24/48VDC redundant power input and built-in power booster to regulate the PoE output voltage at 55VDC to cater for the PoE/PoE+ requirement and stabilize the connected PDs. Ethernet Direct Industrial PoE products support IEEE 802.3af/802.3at standards which are able to provide up to 180 watts PoE power to the connected PoE devices.

Features

High Performance Network Switching Technology

- Complies with IEEE standards
- Provides 8 x 10/100Base-T(X) with M12 connector (4-pin, female, D-Coded), and each port supports PoE/PoE+ output up to 30 watts per port
- Max. PoE power budget at 180 watts
- Supports broadcast storm protection

Reliable Power Design

- Equipped with redundant power inputs
- Supports 24/48VDC power input with IP67 M23 connector (5-pin, male)
- Power reverse polarity protection and overload current protection

Robust Industrial Design

- EN 50155 certified for Railway Applications and IEC 61373 test passed for vibration and shock resistant
- EN 50121-4 certified for Railway Applications (Track Side)
- EN 61000-6-2 and EN 61000-6-4 certified to use in heavy industrial environment
- Robust industrial design case complies with IP67 housing standard
- Supports operating temperature -40 to 80°C
- Wall mount or optional DIN-Rail mounting installation

Specifications

Hardware Specifications

Interface

Total Ports: 8 ports

M12 Ports: 8 x 10/100Base-T(X) M12 connector (4-pin, female, D-Coded), auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

PoE Ports: 8 x M12 connector (4-pin, female, D-Coded), Supports IEEE 802.3af/IEEE 802.3at End-Span, Alternative A mode

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

M12 Ports: 10/100 Link/Active (Green)

M12 Ports (PoE): Output Power On (Green), Output Power Off (Green Off)

Power Requirements

Power Input: 24/48VDC (20 to 57VDC), M23 (5-pin, male), redundant dual inputs

Power Consumption:

24VDC: 188.9 (Full load with PoE), 3.6W (Without PoE), Booster Efficiency 95.70%

48VDC: 191 (Full load with PoE), 4.3W (Without PoE), Booster Efficiency 96%

PoE Power Budget: Max. 180W 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: IP67 standard, 71.4mm (W) x 214.5mm (H) x 66.8mm (D)

Installation: Wall mount or optioal DIN-Rail mounting

Environmental

Operating Temperature: -40 to 80°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 802.3af PoE
 IEEE 802.3at PoE+
 IEEE 802.3x Flow Control

Protocol Technology: CSMA/CD

Switching Architecture: Store and Forward

Regulatory Approvals

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

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

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: EN 50155 (Certified)

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

Shock: IEC 61373

Vibration: IEC 61373

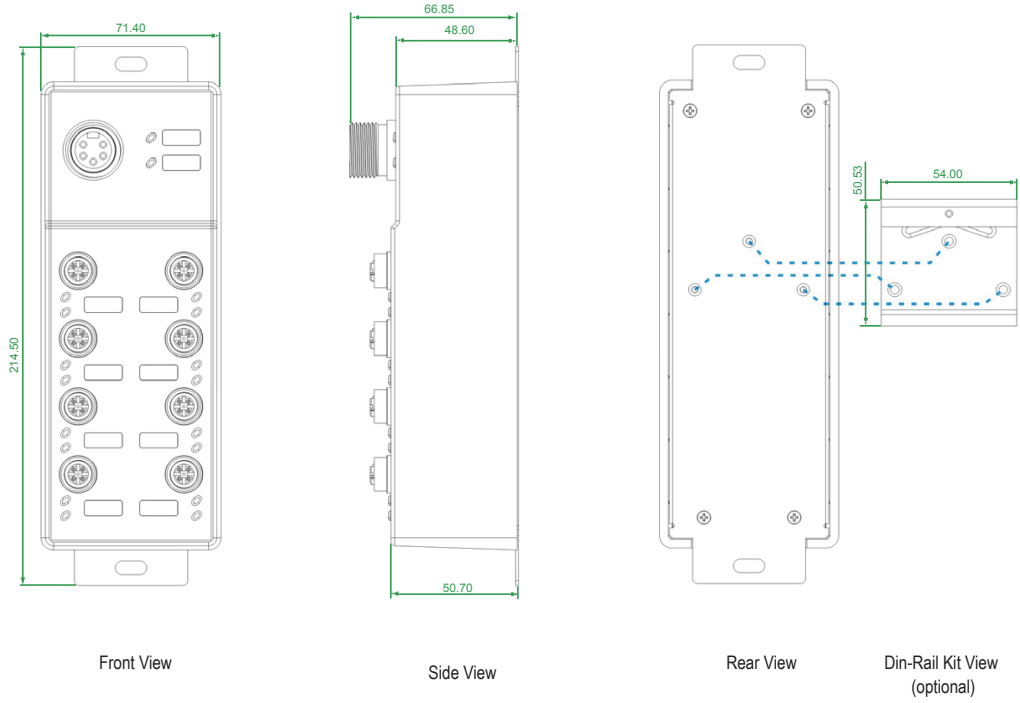
Free Fall: IEC 60068-2-32

Environmental: WEEE, RoHS

MTBF: 937,878 hours based on Mil-Hdbk-217F, GB

Warranty: 5 years

Dimensions (unit=mm)



Ordering Information

WUE-800EAT	Industrial 8 x 10/100Base-T(X) EN 50155 IP67 M12 Unmanaged PoE/PoE+ Ethernet Switch, -40 to 80°C
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