



# WUE-800EAT



## Introduction

### Overview

WUE-800EAT は、EN 50155, EN 50121-4 の要求にミートしており、鉄道・線路沿や、鉄道車両、車両等の輸送業界でのセキュアな通信用途向けにデザインされたアンマネージドスイッチです。WUE-800EAT は、Industrial 8ポートの10/100Base-T(X) M12 UTP 及び 8PoE/PoE+インジェクタポートのPoE給電機能(PSE)を持ち合わせ、さらに広域温度モデル (-40 to 80°C)をもサポートしております。IP67レートにより、ダスト・湿気・油や水の浸入に対する耐性を持っています。搭載されるM12コネクタにより水密を保持し、振動や衝撃等の悪環境下でも確実なコネクションを実現します。安全性のために、PoE/PoE+に対応し、接続されたPDを安定させるため、55VDCでのPoE出力を24/48VDC 冗長電源入力と内蔵パワーブースターにより調整しています。Ethernet Direct社の Industrial PoE製品は、接続されたPoEデバイスに対して最大180ワットのPoE電力を供給できる IEEE 802.3af / 802.3at規格をサポートしています。

## 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 optional 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

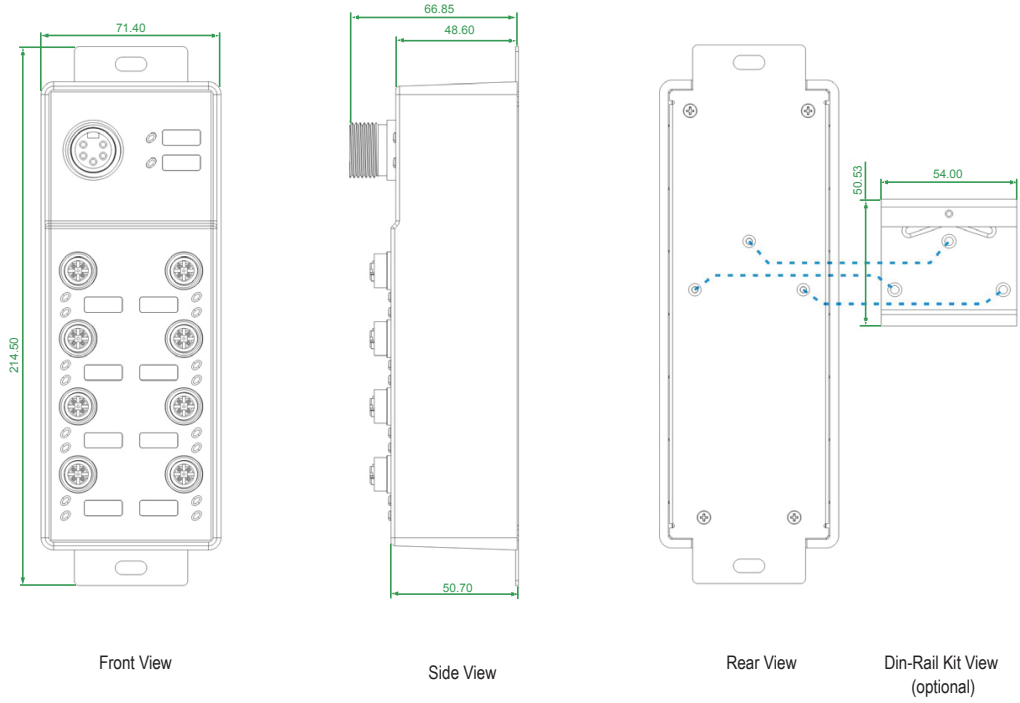
Free Fall: IEC 60068-2-32

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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