# EKI-6528TI
# EKI-6528TPI

## EN50155 8-port M12 Unmanaged Switch with Wide Temperature

## EN50155 8-port M12 Unmanaged PoE Switch with Wide Temperature


## Features

- Auto Bypass between Port 1 and Port 2
- EN50155 complies
- Wide redundant power design
- 8-port 10/100 Mbps M12 type connector with IP40 protection
- 4-port PoE type M12 (EKI-6528TPI)
- Dual redundant power input
- Supports wide operating temperature -40 ~ 75°C

## Introduction

The EKI-6528TI and EKI-6528TPI are EN50155 certified industrial switches with IP40 protection and wide temperature support designed for railway applications. EKI-6528TPI provides four PoE ports that support IEEE 802.3af and can provide up to 15.4 watts of power per port. M12 connectors ensure highly reliable connectivity for industrial communication applications. With IP40 compact metal housings, these switches are protected against dusty environments and are a good fit for many industrial applications. Under no-power condition, 'Auto Bypass' function ensures the Ethernet signal connection through internal circuitry. This feature provides non-stop communication to rolling stocks even no power exists in some of the carriages.

## Specifications

### Communications

- **Standard** IEEE 802.3<br>IEEE 802.3u<br>IEEE 802.3x<br>IEEE 802.3af
- **LAN** 10/100Base-T (X)
- **Transmission Speed** Up to 100 Mbps

### Interface

- **Ethernet** M12, 4-pole D-coded, Female x 8

### Mechanism

- **Enclosure** IP40 protected metal shell
- **Dimensions (W x H x D)** 92 x 180 x 42 mm (3.62" x 7.08" x 1.65")
- **Mounting** DIN-rail, Wall

### Power

- **Power Consumption** Max. 3.36 W (EKI-6528TI)<br>Max. 72 W (EKI-6528TPI)
- **Power Input** 24 ~ 48 $V_{DC}$, redundant dual inputs (for EKI-6528TPI)<br>12 ~ 48 $V_{DC}$, redundant dual inputs (for EKI-6528TI)
- **Power Connector** M12, 5-pole A-coded, male x 1
- **P-Fail Output** 1A @ 24 $V_{DC}$
- **P-Fail Connector** M12, 8-pole A-coded, Female x 1

### Protection

- **Power Reverse** Present
- **Overload Current** Present

### Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 391,307 hours (EKI-6528TI)<br>348,384 hours (EKI-6528TPI)

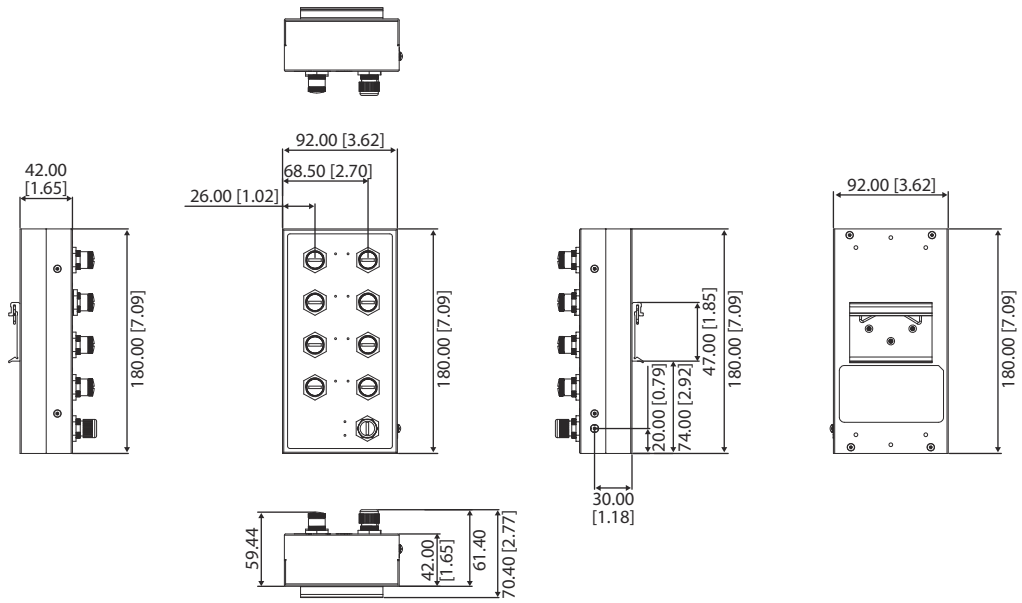
### Certification

- **Safety** UL 60950-1
- **EMI** FCC Part 15 Subpart B Class A, EN 55022 Class A
- **EMS** EN 61000-4-2<br>EN 61000-4-3<br>EN 61000-4-4<br>EN 61000-4-5<br>EN 61000-4-6<br>EN 61000-4-8
- **Shock** IEC 61373
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 61373
- **Railway (Complies)** EN50155, EN 50121-3-2, EN 50121-4
- **Patent** http://www.advantech.com/legal/patent

## Dimensions

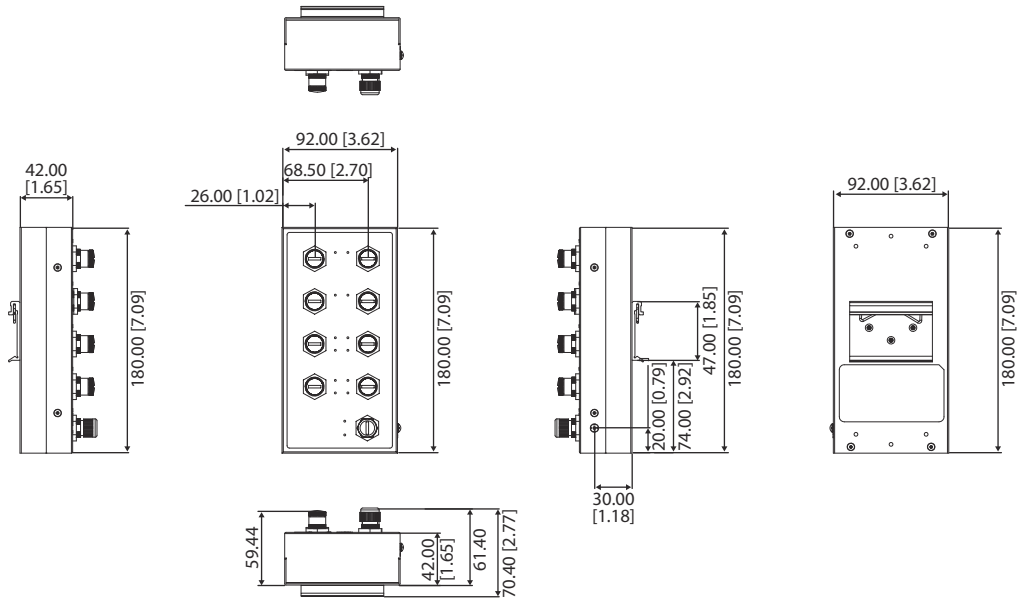
Unit: mm [inch]

**EKI-6528TI**




**Panel Cut-out Dimensions: 92.00 x 180.00 x 42.00 mm (3.62" x 7.09 x 1.65")**

**EKI-6528TI**




**Panel Cut-out Dimensions: 92.00 x 180.00 x 42.00 mm (3.62" x 7.09 x 1.65")**

## Ordering Information

- **EKI-6528TI** EN50155 8-port M12 Unmanaged Ethernet Switch
- **EKI-6528TPI** EN50155 8-port M12 Unmanaged PoE Switch