



# Ethernet switch unmanaged PoE voltage-boost switch

## ICRL-U-10RJ45-PoE-B-DIN

- Industrial PoE IEEE 802.3af compliant unmanaged switch
- Eight 10/100BASE-TX PoE ports and two Gigabit uplink ports
- Total output power budget of 80W (15.4W maximum on each port)
- Voltage boost technology that supports 8 - 32V DC power input sources for transportation, security and industrial applications
- QoS support for optimizing video and VoIP stream
- Alarm relay for failure and event notification
- Extended operating temperature range (-40 to +70 °C)
- Suitable for PROFINET IO and EtherNet/IP

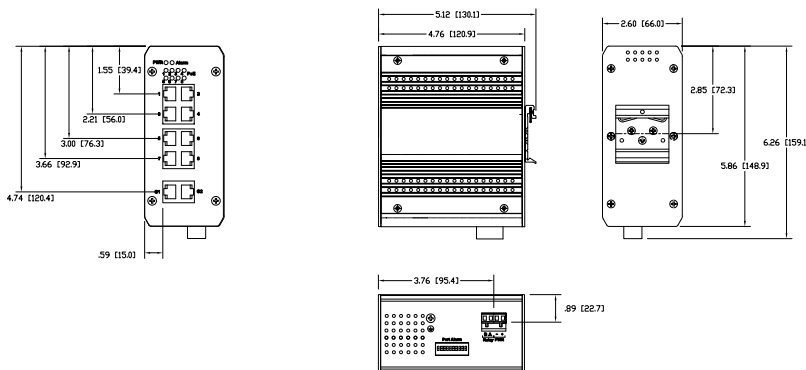
RocketLinux ICRL-U-10RJ45-PoE-B-DIN



### Function

The RocketLinux ICRL-U-10RJ45-PoE-B-DIN is a 10-port unmanaged Power over Ethernet switch designed for use in vehicular and industrial applications. Featuring voltage boost technology it boosts an input voltage of 8 to 32 VDC to 48 VDC on each of its eight 802.3af compliant 10/100 Mbps PoE ports. Two 1 Gbps ports connect attached PoE devices to the rest of the network without risk of traffic congestion. The passively cooled design ensures long-term reliability while providing 80 W of power to attached PoE devices in environments ranging in temperature from -25 to +60°C.

### Dimensions



### Technical Data

| General specifications |                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------|
| UL File Number         | E185778                                                                                    |
| MTBF                   | 22.8 a                                                                                     |
| Ethernet Interface     |                                                                                            |
| Connection type        | RJ45                                                                                       |
| Auto-MDI(-X)           | yes                                                                                        |
| Autonegotiation        | yes                                                                                        |
| Transfer rate          | 8 - 10BASE-T, 100BASE-TX 10/100 Mbps 2 - 10BASE-T, 100BASE-TX, 1000BASE-T 10/100/1000 Mbps |
| Cable type             | Category 5e or better                                                                      |
| PoE features           |                                                                                            |
| Type                   | PoE output Mode: Alternative B                                                             |
| Max. total power       | 80 W                                                                                       |
| Standards              |                                                                                            |

Release date: 2025-07-05 Date of issue: 2025-07-05 Filename: 70130976\_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

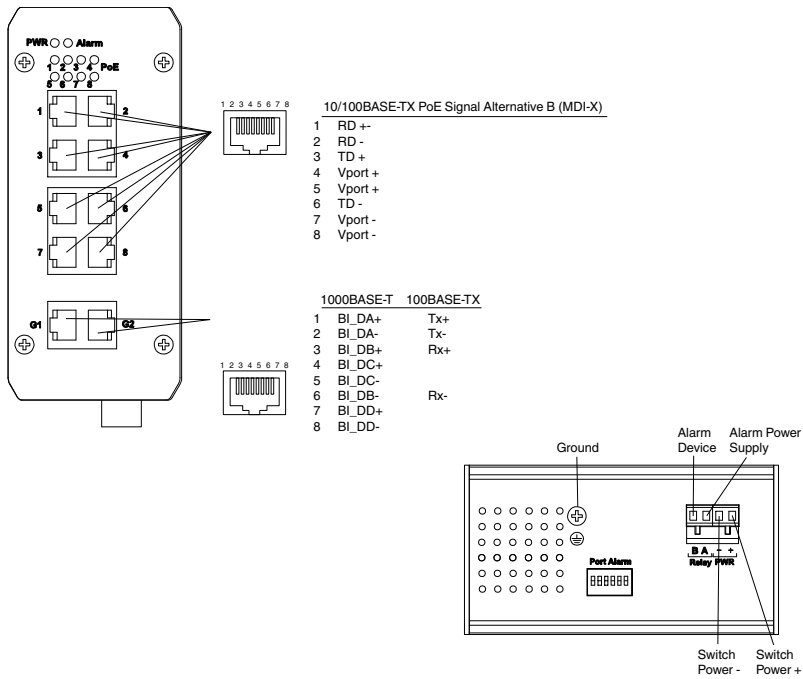
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

## Technical Data

|                                            |                |                                                                                                                                   |
|--------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| IEEE 802.3 10BASE-T                        |                | yes                                                                                                                               |
| IEEE 802.3u 100BASE-TX                     |                | yes                                                                                                                               |
| IEEE 802.3x Flow Control and Back-pressure |                | yes                                                                                                                               |
| IEEE 802.1p Class of Service (CoS)         |                | yes                                                                                                                               |
| IEEE 802.3ab 1000BASE-T                    |                | yes                                                                                                                               |
| IEEE802.3af Power over Ethernet (PoE)      |                | yes                                                                                                                               |
| <b>Indicators/operating means</b>          |                |                                                                                                                                   |
| LED indication                             |                | see manual                                                                                                                        |
| <b>Electrical specifications</b>           |                |                                                                                                                                   |
| Rated operating voltage                    | U <sub>e</sub> | 8 ... 32 V DC                                                                                                                     |
| Power consumption                          |                | 15 W max. 24 V without PD loading                                                                                                 |
| General information                        |                | Digital output (relay output) rating 1 A Max. @ 24 V DC, Digital input , Alarm relay for failure and event notification           |
| Nominal voltage                            | U <sub>N</sub> | 12 V , 24 V                                                                                                                       |
| <b>Inputs/Outputs</b>                      |                |                                                                                                                                   |
| Number/Type                                |                | 8 x RJ45 (Fast Ethernet) 2 x RJ45 (Gigabit)                                                                                       |
| <b>Directive conformity</b>                |                |                                                                                                                                   |
| Electromagnetic compatibility              |                |                                                                                                                                   |
| Directive 2014/30/EU                       |                | EN 55032:2015 , EN 55032:2015+A11:2020 , EN 55035:2017/A11:2020 , EN 61000-6-2:2005 , EN 61000-6-4:2007 , EN 61000-6-4/A1:2011-02 |
| RoHS                                       |                |                                                                                                                                   |
| Directive 2011/65/EU (RoHS)                |                | EN IEC 63000:2018                                                                                                                 |
| <b>Standard conformity</b>                 |                |                                                                                                                                   |
| Electrical safety                          |                | CSA C22.2 No. 60950 / CSA C22.2 No. 60950/UL60950                                                                                 |
| Emitted interference                       |                | EN 55032, FCC Part 15 Subpart B, ICES-003, AS/NZS CISPR 32                                                                        |
| Noise immunity                             |                | EN 55032                                                                                                                          |
| <b>Ambient conditions</b>                  |                |                                                                                                                                   |
| Ambient temperature                        |                | -40 ... 70 °C (-40 ... 158 °F)                                                                                                    |
| Storage temperature                        |                | -40 ... 80 °C (-40 ... 176 °F)                                                                                                    |
| Relative humidity                          |                | max. 95 %                                                                                                                         |
| Altitude                                   |                | 0 ... 3048 m                                                                                                                      |
| <b>Mechanical specifications</b>           |                |                                                                                                                                   |
| Degree of protection                       |                | IP30                                                                                                                              |
| Connection                                 |                | Power Supply Terminal Block (4-pin)<br>Ethernet 10 x RJ45                                                                         |
| Material                                   |                |                                                                                                                                   |
| Housing                                    |                | Aluminum                                                                                                                          |
| Mass                                       |                | 1.05 kg                                                                                                                           |
| Dimensions                                 |                |                                                                                                                                   |
| Height                                     |                | 131.2 mm with DIN rail clip                                                                                                       |
| Width                                      |                | 66 mm                                                                                                                             |
| Length                                     |                | 149 mm                                                                                                                            |
| Construction type                          |                | Cabinet module                                                                                                                    |
| Mounting                                   |                | DIN rail or direct panel mounting                                                                                                 |

## Connection



## Indication

