

# Tables

## Specifications

| Redisage PN                              |             | P10                                    | P11 | P12 |  |  |  |
|--|-------------|--|-----|-----|--|--|--|
| Ports                                    | RS232       | 4x                                     | -   | 2x  |  |  |  |
|  | RS485       | -                                      | 4x  | 2x  |  |  |  |
|  | RS232/RS485 | -                                      | -   | -   |  |  |  |
| Microcontroller                          |             | STM32                                  |     |     |  |  |  |
| WiFi                                     |             | N/A                                    |     |     |  |  |  |
| Bluetooth                                |             | N/A                                    |     |     |  |  |  |
| SMA socket connector for WiFi/BT antenna |             | :x:                                    |     |     |  |  |  |
| Tactile switch                           |             | :white_check_mark:                     |     |     |  |  |  |
| Power                                    | Voltage     | 12-30 VDC                              |     |     |  |  |  |
|  | Power       | < 1 W                                  |     |     |  |  |  |
| Frame ground protection                  |             | yes                                    |     |     |  |  |  |
| Baud rate                                |             | up to 115200 bps                       |     |     |  |  |  |
| LED indicators                           |             | power, link activity, programmable RGB |     |     |  |  |  |

| Redisage PN            |             | P10   | P11 | P12 |  |  |  |
|------------------------|-------------|---|-----|-----|--|--|--|
| RS485 termination      |             | 120 ohm manually enabled  |     |     |  |  |  |
| Connector              | RS232/RS485 | 8-pin terminal block max. 2.5 mm <sup>2</sup> wire  |     |     |  |  |  |
|                        | Power       | 3-pin terminal block max. 2.5 mm <sup>2</sup> wire  |     |     |  |  |  |
|                        | Ethernet    | RJ45  |     |     |  |  |  |
| Transmission distance  | RS485       | max. 1,200 m at 9.6 kbps; max. 400 m at 115.2 kbps<br>(Belden 9841 2P twisted-pair cable, if different cables are used, the transmission distance may change) |     |     |  |  |  |
|                        | RS232       | max. 15 m at 115.2 kbps   |     |     |  |  |  |
| Mounting and enclosure |             | DIN rail, plastic PA - UL 94 V0, black/green  |     |     |  |  |  |
| Temperatures           |             | -40°C to +75°C operating and storage  |     |     |  |  |  |
| Humidity               |             | 10 - 90% RH, non-condensing   |     |     |  |  |  |
| ESD protection         |             | ±4 kV contact discharge / ±8 kV air discharge   |     |     |  |  |  |
| Certification          |             | CE, RoHS, EMC, LVD  |     |     |  |  |  |
| Norms                  |             | 61000-6-2 - Immunity standard for industrial environments<br>61000-6-4 - Emission standard for industrial environments  |     |     |  |  |  |

## Pin assignments

P10

**P10** Open IoT Ethernet Gateway

012345678901234

Power: 12-30V/DC < 1W  
 Temperature: -40°C + 75°C  
 Port: 4xRS232 ETH  
 Ethernet: 10/100BaseT  
 MAC Add: #####MAC1#####  
 REV1 MADE IN EU

|        |       |        |                  |
|--------|-------|--------|------------------|
| 4 Gnd  | 8 Tx2 | 12 Rx3 | Ethernet<br>RJ45 |
| 3 FG   | 7 Rx2 | 11 Tx3 |                  |
| 2 Vin2 | 6 Tx1 | 10 Tx4 |                  |
| 1 Vin1 | 5 Rx1 | 9 Rx4  |                  |

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P11

**P11** Open IoT Gateway 4xRS485

012345678901234

Power: 12-30V/DC < 1W  
 Temperature: -40°C + 75°C  
 Port: 4xRS485 ETHERNET  
 Ethernet: 10/100BaseT  
 MAC Add: #####MAC1#####  
 REV1 MADE IN EU

|        |      |       |                  |
|--------|------|-------|------------------|
| 4 Gnd  | 8 A4 | 12 B2 | Ethernet<br>RJ45 |
| 3 FG   | 7 B4 | 11 A2 |                  |
| 2 Vin2 | 6 A3 | 10 B1 |                  |
| 1 Vin1 | 5 B3 | 9 A1  |                  |

A1 B1 A2 B2

SC SC

220 220

SC - Software Control

CE RoHS COMPLIANT

Redisage ELECTRONICS

P12

**P12** Open IoT Gateway 2xRS232 2xRS485

012345678901234

Power: 12-30V/DC < 1W  
 Temperature: -40°C + 75°C  
 Port: 2xRS232 2xRS485 ETH  
 Ethernet: 10/100BaseT  
 MAC Add: #####MAC1#####  
 REV1 MADE IN EU

|       |       |       |                  |
|-------|-------|-------|------------------|
| 4 Vin | 8 Tx2 | 12 A2 | Ethernet<br>RJ45 |
| 3 Gnd | 7 Rx2 | 11 B2 |                  |
| 2 Din | 6 Tx1 | 10 A1 |                  |
| 1 FG  | 5 Rx1 | 9 B1  |                  |

A1 B1 A2 B2

SC SC

220 220

SC - Software Control

CE RoHS COMPLIANT

Redisage ELECTRONICS

Revision #4

Created 20 June 2024 09:47:41 by Jan Górski

Updated 13 May 2025 08:51:19 by Michał Grabski