

MCRN7L Terminal Outdoor

PoE-Ethernet, Embedded Linux, RFID, QR-Code



The **MCRN7 Light** is our cutting-edge RFID terminal, designed to redefine access control and time management solutions. Equipped with a powerful RFID card reader, QR scanner and advanced connectivity options including PoE-Ethernet and Wi-Fi, this terminal is built for versatility.

Key features

- Embedded Linux**
 Runs on a stable, customizable operating system ideal for long-term use and integration
- Outdoor Housing**
 Runs on a stable, customizable operating system ideal for long-term use and integration.
- Dual Speakers**
 Integrated stereo speakers for clear voice and audio feedback
- Wi-Fi Connectivity (2.4 GHz / 5 GHz)**
 Reliable Wi-Fi connection for flexible installation
- Integrated QR-Code Scanner**
 Reads QR codes directly within the device, enabling quick data capture without extra hardware
- PoE-Enabled Ethernet**
 Delivers power and data over a single connection for easy installation
- RFID-Interface**
 MIFARE® Family, NTAG, I-CODE
- Solid State Relay & Optical Inputs**
 Useful for controlling gates, barriers, or alarms.

Ideal for

- Delivery & Logistics
- Time and Attendance
- Access Control
- Event Management

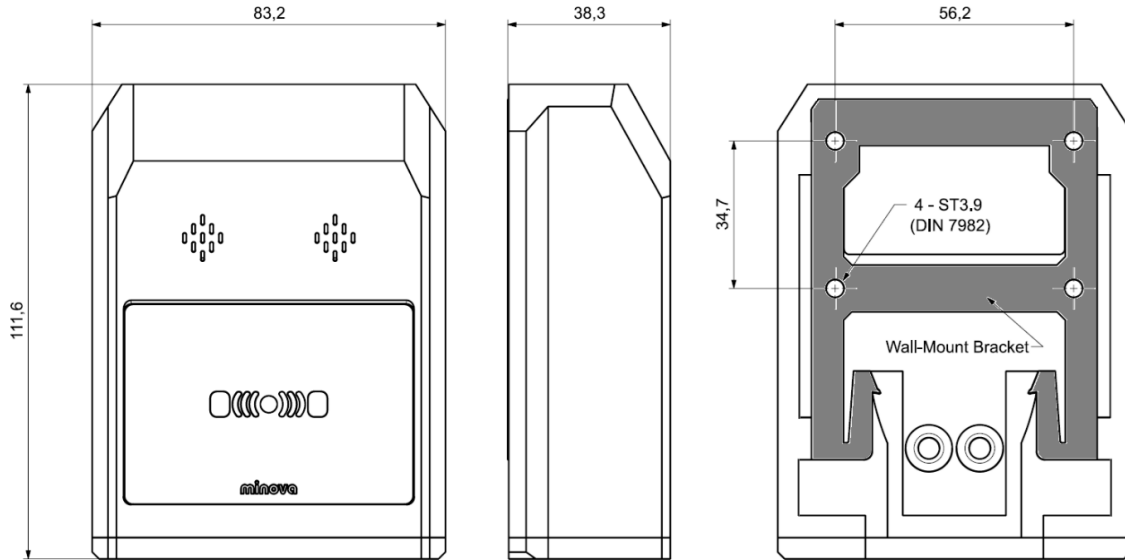


Technical Data


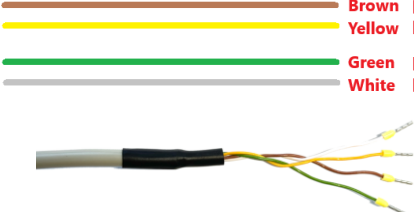
| | | |
|---|---|--|
| Operating Frequency | 13.56 MHz | |
| Platform Linux OS | iMX.6ULL 528 MHz CPU, 512 MB RAM, 4 GB Flash | |
| Dimensions | 111,6x83,2x38,3 | |
| IP Protection | IP65 | |
| Colors | Black, gray and optional other colors | |
| MTBF | 500.000h | |
| Interfaces | PoE-Ethernet Wi-Fi 6 (2.4G & 5G) (Optional) RS232, RS485, USB device and host | |
| Supported Cards & Transponders | MIFARE®-Family NTAG I-Code | |
| Antenna | Integrated | |
| Temperature | -20°C to +70 °C | |
| Relative Air Humidity | 5% up to 95% (non-condensing) | |
| Power Supply | +8V to +48V DC +12V DC nominal | |
| Current Consumption | ~650mA @12VDC | |
| Weight | 200 g | |
| Supported Standards | ISO14443A/B ISO15693 | |
| Certifications | USA Europe/UK | FCC 47 CFR Part 15 (in progress) CE/RED |
| Compliances | Cyber Security EMC Environment | EN 18031-1 EN 301489 EN 55022 EN 300330 RED 2014/53/EU RoHS Compliance REACH 1907/2006 |
| Device Photos | <p>Cable output variants: Bottom or back</p>  | |

Dimensions & Ports

The following views illustrate the precise dimensions and physical layout of the **MCRN7L Terminal** designed for seamless integration into various environments. All measurements are in millimeters. The housing is optimized for wall mounting and device integration, following standard industrial dimensions.



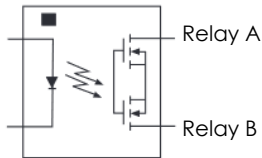
Interface Ports

| Cable | Type | Pinout |
|-------|---------------------------|---|
| 1 | Ethernet |  |
| 2 | Relay |  <ul style="list-style-type: none"> — Brown [RELAY1] — Yellow [RELAY1] — Green [RELAY2] — White [RELAY2] |
| 3 | Optional other interfaces | Inputs, USB, RS232 and RS485 |



Output port

The relays are single pole, normally open solid-state type

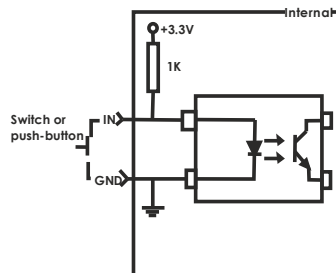


| Parameter | Rating | Units |
|----------------------------|--------|-----------------|
| Blocking Voltage | 30 | V _P |
| Load Current | 1.2 | A _{DC} |
| On-Resistance (max) | 0.25 | Ω |



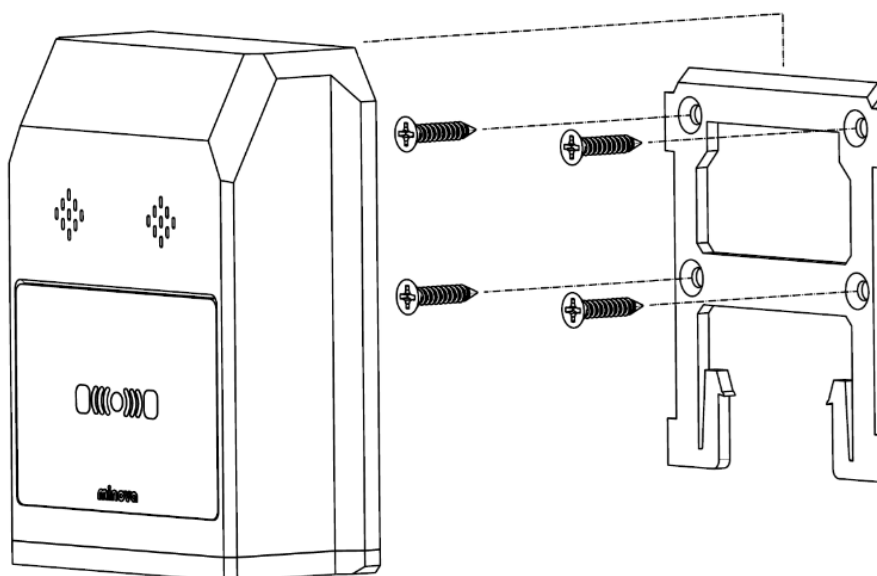
Input port

Each input pin consists of a phototransistor optically coupled to an infrared LED, suitable for push buttons or input switches activated by a low signal or by pulling the pin to ground



Installation Guide

This picture explains how to install the device using the wall-mount bracket.



Ordering Codes

| Article Nr. | Ethernet | Power Supply | Relays | Inputs | RS232 | RS485 | QR-Code | Cable Out |
|-------------|-------------|--------------|--------|--------|-------|-------|---------|-----------|
| MCRN7-L100 | Passive-PoE | +12V | ✓ | Opt. | Opt. | Opt. | | Back |
| MCRN7-L200 | Passive-PoE | +12V | ✓ | Opt. | Opt. | Opt. | ✓ | Back |
| MCRN7-L201 | Passive-PoE | +12V | ✓ | Opt. | Opt. | Opt. | ✓ | Bottom |
| MCRN7-L110 | PoE | PoE | ✓ | | | | | Back |

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