

MCR08M-1100 RFID Terminal

MCR08M-1100 R 1.3
Aug. 02, 2024

Key Features

| | |
|--------------------------------|----------------------------------|
| Type | RFID/NFC Terminal |
| IP Protection | IP65 |
| Frequency | 13.56 MHz |
| Interface | RS485/RS232/Wi-Fi or Ethernet |
| Standards | ISO14443A/B, ISO15693 |
| Supported Cards & Transponders | MIFARE® Family NTAG I-Code |
| Antenna | Internal |
| Display | Capacitive touch |



1 ELECTRICAL

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNIT |
|-------------------|----------------------------------------|----------|-----------|------|------|
| VIN | Input charge voltage V_{in} | +8 | +12 | +36 | V |
| IN | Input current ($V_{in}=+12V$) | - | 300 | - | mA |
| VR | Maximum Reverse Voltage | - | 40 | - | V |
| RS485-VOD | Differential Output ($R_L=54\Omega$) | +1.5 | +2 | +3.3 | V |
| RS485-A/B | Input Voltages | -8V | - | +13 | V |
| RS485-A/B | Output Voltages | - | +3.3 | - | V |
| RS232 Receiver | Input Voltages | -30 | - | +30 | V |
| RS232 Transmitter | Output Voltages | ± 5 | ± 5.2 | - | V |
| TA | Ambient Temperature Range | -20 | - | +80 | °C |
| MTBF | | 500.000h | | | |

3 FEATURES

- RS485/RS232
- Wi-Fi or optional Ethernet variant
- 4.3" TFT color LCD
- 480x272 pixel IPS
- Capacitive touch screen
- Full NFC support
- FTP client for synchronization
- 16 MB memory
- Buzzer and real time clock
- Waterproof design
- +8V to +36V DC charge supply
- -20 to +80 °C ambient Temperature

4 DIMENSIONS



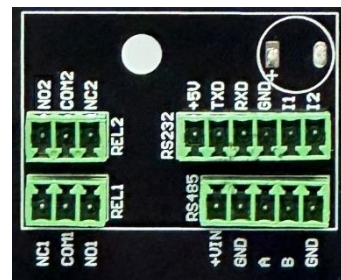
5 SERIAL VARIANT CONNECTOR PINOUT

| Connector | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 |
|-----------|-------------|---------|-------|-------|--------|---------|
| RS485 | +VIN (+12V) | GND | A | B | GND | |
| RS232 | Input 2 | Input 1 | GND | RX in | TX out | +5V Out |
| Relay 1 | NC | COM | NO | | | |
| Relay 2 | NC | COM | NO | | | |

The inputs are optical isolated and active low (triggered by pulling them to the GND).

The relay outputs are dry contact and max. **1.5A/24VDC**.

COM: Common
NC: Normally closed
NO: Normally open



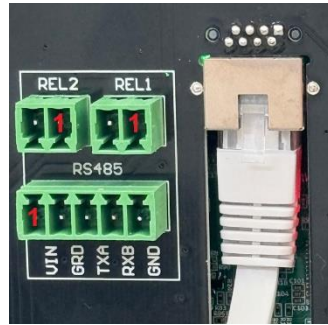
Serial Variant

Ethernet Variant

6 ETHERNET VARIANT CONNECTOR PINOUT

| Connector | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 |
|-----------|-------------|-------|-------|-------|-------|
| RS485 | +VIN (+12V) | GND | A | B | GND |
| Relay 1 | +12V On/Off | GND | | | |
| Relay 2 | +12V On/Off | GND | | | |

Relay outputs are switching +12V on/off.



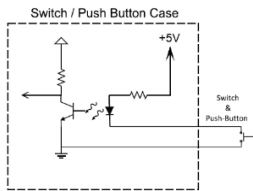
7 MOUNTING

The wall mount part (blue kit) should be fixed onto the wall by drilling the required holes. To install the reader on the kit, insert first the upper nuts, pull the reader slightly downwards, then insert the lower nuts and finally pull the reader completely down. Optionally, you can drive the screw CCW to fix the reader.

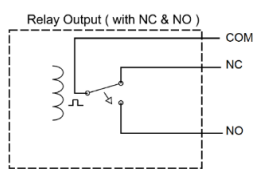


8 INPUTS & OUTPUTS

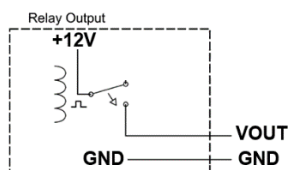
Input and relay circuitries are as below.



Inputs



Relay Outputs



Ethernet Variant

9 WALL MOUNT REFERENCE

We recommend using 3mm countersunk head screws.

