MCR08M-1100 RFID Terminal

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 Vin	+8	+12	+36	V
IN	Input current (VIN=+12V)	-	300	-	mA
VR	Maximum Reverse Voltage	-	40	-	V
RS485-VOD	Differential Output (RL=54Ω)	+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	-	+70	°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 ºC ambient Temperature

4 DIMENSIONS

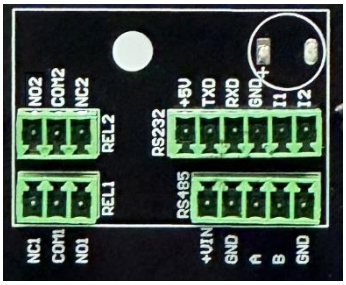
5 SERIAL VARIANT CONNECTOR PINOUT

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*

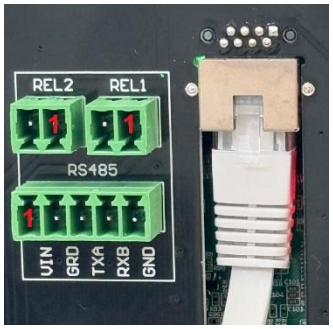


Serial Variant **Ethernet Variant**

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.

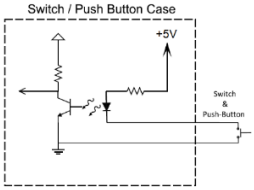


7 MOUNTING

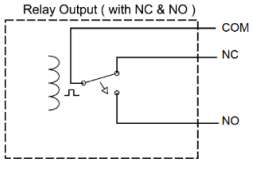
The wall mount part (blue kit) should be fixed onto the wall by drilling the required holes. To install the reader on the kit, insert first the upper nuts, pull the reader slightly downwards, then insert the lower nuts and finally pull the reader completely down. Optionally, you can drive the screw CCW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

8 INPUTS & OUTPUTS

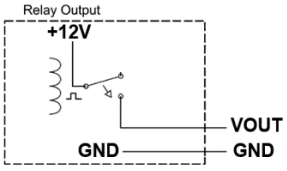
Input and relay circuitries are as below.



Inputs



Relay Outputs



Ethernet Variant

9 WALL MOUNT REFERENCE

We recommend using 3mm countersunk head screws.