



MCR08M RFID Terminal

PoE-Ethernet, Wi-Fi & RS485

The **MCR08M terminal** offers a reliable and powerful solution for applications such as access control, time recording and logistics. With a modern design, intuitive operation and flexible application options, it meets the requirements of modern working environments. Robust, future-proof and user-friendly - this terminal is the ideal choice for efficient data collection and processing.

Key features

- **Interfaces**
Offers Ethernet, Wi-Fi or LTE for flexible connectivity
- **Transponders**
ISO14443A/B, ISO15693, MIFARE®, NTAG, and I-Code
- **IP65 Protection**
Dustproof and resistant to water jets
- **Wide operating voltage range**
Operates on **+8V** or **+36V** for easy integration
- **Integrated Touch Display**
4.3" TFT touchscreen, allowing PIN entry, menu Nav and visual feedback
- **Relay Outputs**
Controls doors or turnstiles directly
- **Temperature Range**
Works from -20°C to +70°C for outdoor use
- **Modular Add-ons**
Supports extras like QR Scanner and LTE Module

Ideal for

- Access Control Systems
- Public Transport / E-Ticket
- Time Recording
- Vending Machines
- Parking Management
- Automation & IoT



Technical Data

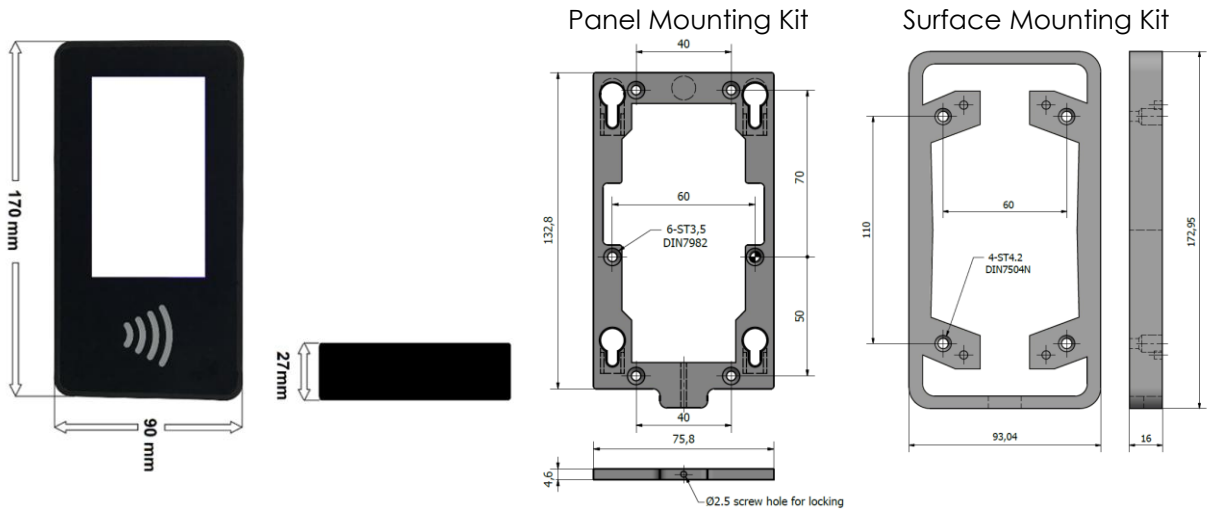
Operating Frequency	13.56 MHz	
Dimensions	170X90X27mm	
MTBF	500.000h	
Interfaces	Ethernet RS232 RS485 Wi-Fi (Optional) LTE	
Supported Cards & Transponders	MIFARE®-Family NTAG I-Code (optional LF)	
Antenna	Integrated	
Display	Capacitive Touch 4.3" TFT Color LCD 480x272 pixel IPS	
Memory	16 MB	
Temperature	-20°C to +70 °C	
Waterproof design	(optional sealing)	
Relative Air Humidity	5% up to 95% (non-condensing)	
Power Supply	+8V to +36V DC	
Current Consumption	~300 mA	
Weight	308 g	
Supported Standards	ISO14443A/B ISO15693	
Certifications	USA Europe/UK	FCC 47 CFR Part 15 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



Dimensions

The following views illustrate the precise dimensions and physical layout of the **MCR08M RFID Terminal** and the **Wall mount** specifically for the MCR08M RFID Terminal designed for seamless integration into various environments. All measurements are in millimeters.



Mounting

The wall mount part (wall mount kit) should be fixed onto the wall by drilling the required holes. To install the reader on the kit, insert the upper nuts first, 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.

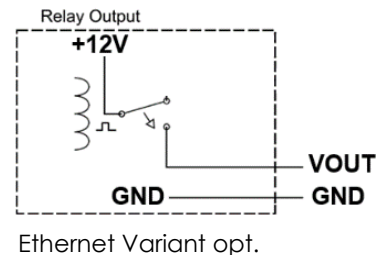
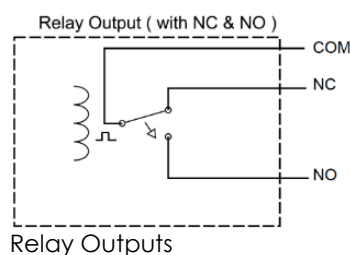
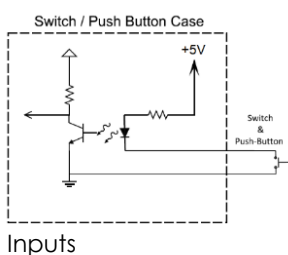
Panel Mounting Kit

Surface Mounting Kit



Inputs & Outputs

Input and relay circuitries are as below.



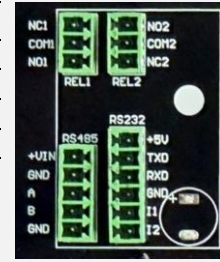
Connector Details and Pinout (Outdoor)



Variant	Pin1	Pin2	Pin3	Pin4	Pin6
RS232	+VIN (+12V)	GND	A	B	
RS485	Input2	Input1	GND	RX in	+5V out
Relay1	NC	COM	NO		
Relay2	NC	COM	NO		

The inputs are optically 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



Ethernet Variant



Ordering Codes

Ordering Code	Relay	Input	RS232	RS485	Wi-Fi	LTE	QR Scanner	Ethernet Cable out	Waterproof
MCR08M-1100	✓	✓	✓	✓	✓				opt.
MCR08M-1110	✓	✓	✓	✓	✓			✓	opt.
MCR08M-1101					✓				
MCR08M-1400	✓	✓	✓	✓	✓	✓			opt.
MCR08M-1600	✓	✓	✓	✓	✓		✓		opt.
MCR08M-1610	✓	✓	✓	✓	✓		✓	✓	opt.

Connector Details and Pinout (Indoor)



Variant	Pin1	Pin2	Pin3	Pin4	Pin5
RS485	+VIN (+12V)	GND	A	B	GND

COM: Common
NO: Normally open

Variant Std	Pin1	Pin2
Relay1	COM	NO
Relay2	COM	NO

The relay outputs are optional switching +12V on/off

Variant 12V	Pin1	Pin2
Relay1	+12V On/Off	GND
Relay2	+12V On/Off	GND



Ordering Codes

Ordering Code	Relay	RS485	Wi-Fi	LTE	QR Scanner	Ethernet Interface
MCR08M-1100E	✓	✓	✓			PoE-12V
MCR08M-1400E	✓	✓	✓	✓		PoE-12V
MCR08M-1620E	✓	✓	✓		✓	PoE-12V
MCR08M-1621E	12V	✓	✓		✓	PoE-12V

FCC Regulatory Conformance

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated at a minimum distance of 20cm between the radiator and your body.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Part 15.19 Warning Statement- (Required for all Part 15 devices)

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

FCC Part 15.21 Warning Statement-

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Minova Technology GmbH

Lindenstraße 2
78628 Rottweil / Germany



info@minovatech.de
+49 (0) 741 348 51 564

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