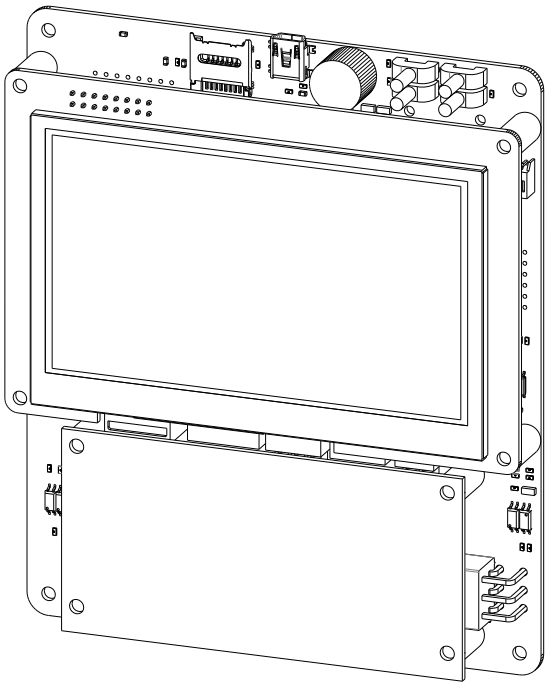
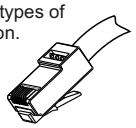
DOC NR 150515001 V1.0

MCR08 contactless MIFARE®card reader



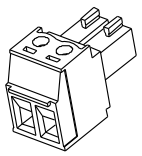
Connectors

MCR03 terminals may have five types of connectors based on configuration.



Ethernet Connector
Standard UTP Modular Plug

3,81mm Terminal Block Plug
Molex Part Nr. 39510



Cable Size: 0,20 - 1,31 mm^2
AWG: 16,18,20,22,24

Description

MCR08-G is a multi purpose 13.56MHz RFID & communication terminal designed to be used in Access Control/ Attendance Control/Contactless Payment systems.

Specifications
- 4.3” TFT Touch Screen
- 13.56 MHz Contactless MIFARE/NFC/RFID Reader
- Ethernet Communication
- Internal Relay & Digital Input
- Configuration over the network
- SDK for system and device integrators

Applications
- Access & Attendance Control
- Cashless payment systems
- E-ticketing Applications (On turnstiles & with barcode scanner)
  Reservation and registration
- Electric vehicle charging stations
- Smart building automation
- Vending machines and kiosks
  HMI Operator Panels for Automation with RFID
- Asset tracking & sensing (ICODE etc.)
- IoT Gateway & Tracking
- Telemetry Monitor & Tracking Screen

MCR08 contactless MIFARE®card reader

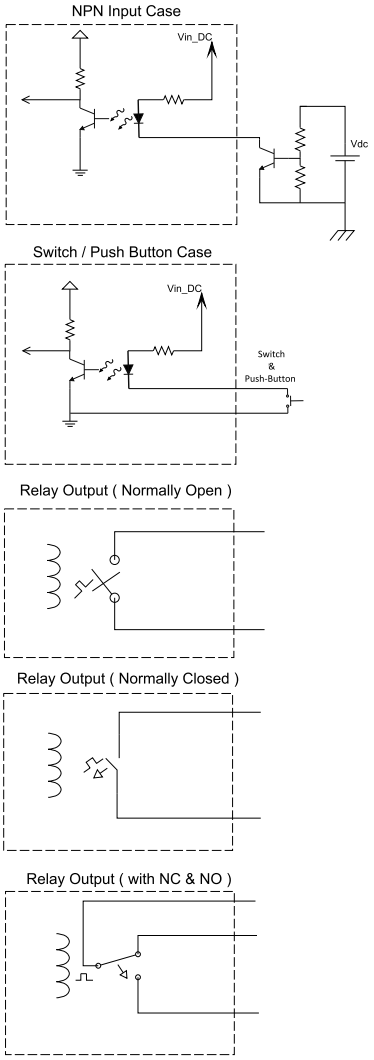
Technical Specifications

- MIFARE® ISO14443A, Classic, Plus and Ultralight Contactless Cards Read/Write
- TFT Color LCD with 480 x 272 pixel Resolution
- LED Backlight
- 6-35V DC Operation
- 32-bit ARM Cortex High Performance CPU
- Up to 8MB internal Flash
- Up to 4GB SD/MMC Memory Support
- Audio (Speaker or Buzzer) and LED visualisation
- Up to 12 cm contactless card read/write operating distance
- Communications:
  - Ethernet 10BaseT Communications
  - USB 2.0 Full Speed
  - RS232 Port (300-115200 Baud)
  - RS485 Port (300-115200 Baud)
  - MDB Slave
  - GPRS Connection with GT1xx GSM Modem*
- MDB Interface:
  - Compliant to MDB standard
  - Configurable MDB parameters
  - Standard MDB connector
  - Easy integration into any MDB Compliant Vending Machines
- Inputs & Outputs (See Schematic Section For Details)
  - Relay Outputs with NO and NC (1.5A Dry Contact)
  - 4xDigital Opto-isolated inputs
- Offline Operation with internal Flash
- Built-in Real Time Clock (RTC) with Battery Back-up
- Etherhet:
  - Ethernet 10BaseT
  - Globally Unique MAC Address
  - Integrated TCP/IP Stack
  - TCP/IP Client-Server Communication
  - UDP Support
  - DHCP or Static IP Operation
  - ICMP Ping Support
  - Configurable over Local Network with miFinder Software
- -40 °C … +85 °C Industrial Operating Temperature

NOTES:

- Enclosure is also available.

Input / Output Schematics



Ordering Information

MCRXX X-XXX-OEM

- XXX: U : USB Port; M: MDB Port; E : Ethernet Port; R3 : RS232 Port; R4 : RS485 Port; RL : Relay (2 for dual Relay)
- X: A : Without LCD; L : With LCD
- XX: 08 : Family Code

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS

CE

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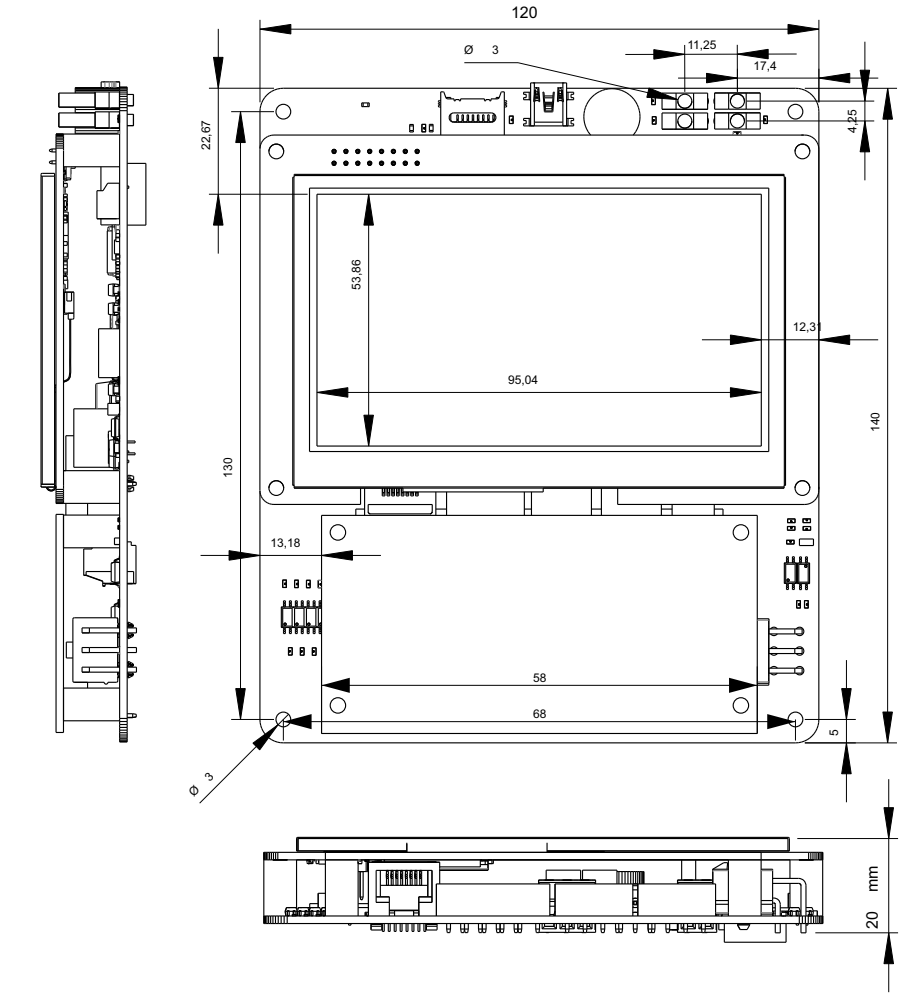
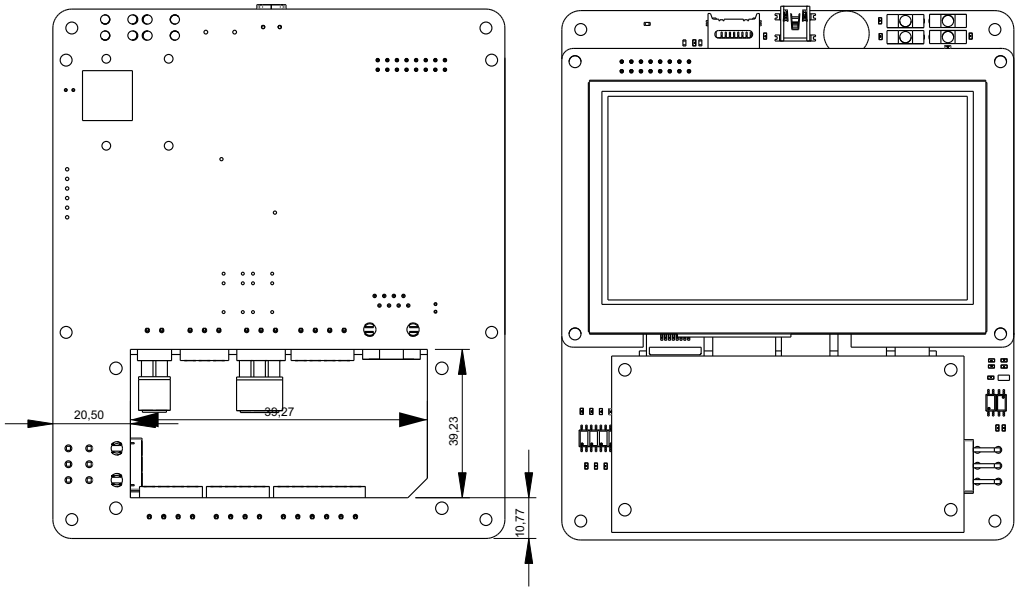
Dimensions (mm)





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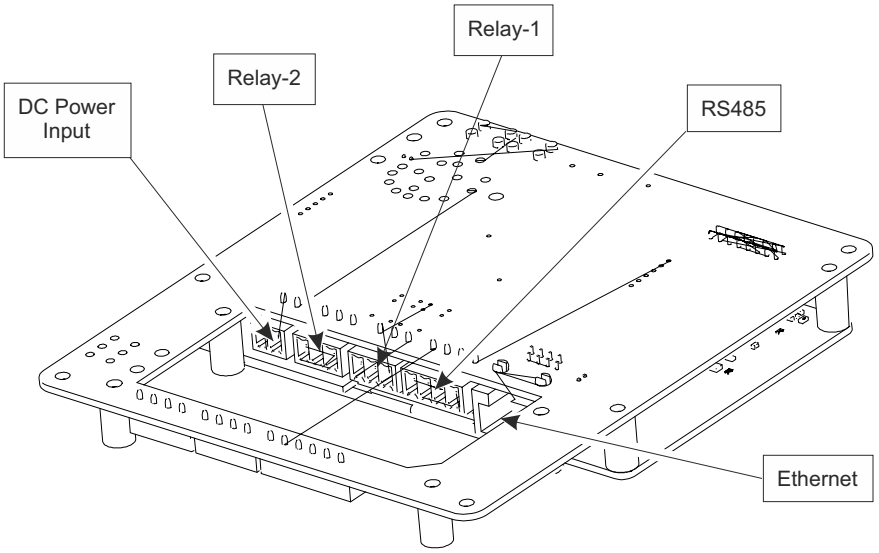
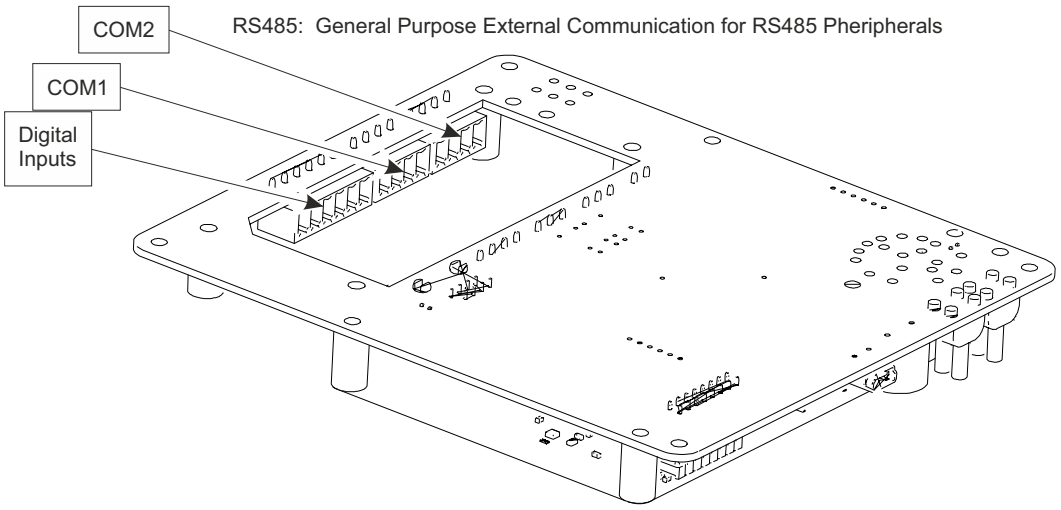
MCR08/V800 Terminal Block Connector Pinouts



Notes About Communication Options:

COM-1: Device Programming & General Purpose External Communication

RS485: General Purpose External Communication for RS485 Pheripherals



Notes:
1- All voltages and signals are given as related to GND
2- All terminal block plugs are 3.81mm type such as OSTTJ0231530