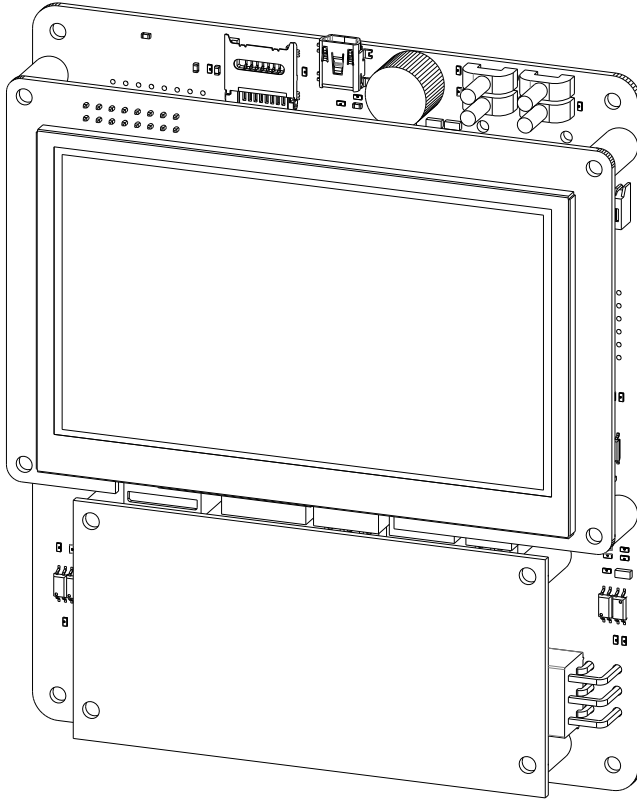# MCR08-G contactless MIFARE card reader

Description

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

In addition to MCR08 series devices, MCR08-G has a number of communication options such as **GPRS/NB-IoT/Wi-Fi/Bluetooth** through mini-PCI expansion slot.

Specifications
· 4.3" TFT Touch Screen
· 13.56 MHz Contactless MIFARE/NFC/RFID Reader
· Ethernet and GPRS/2G/3G/LTE or Wi-Fi & Bluetooth 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

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MCR08-G contactless MIFARE card reader

Technical Specifications

- MIFARE®, ISO14443A/B
    Classic, DesFire, Plus and Ultralight Contactless Read / Write
    ISO/IEC 15693*
    ISO/IEC 18000* (ICODE)
    50 ohm external antenna*
- 4.3" TFT Capacitive/Resistive LCD Touchscreen
- 32-bit ARM Cortex High Performance CPU
- 8 GB Internal uSD Memory
    1 MB Internal NOR Flash Memory
    128 KB FRAM*
- Ethernet 10/100 Mbps
    Integrated TCP/IP (UDP,ICMP, FTP, NTP, Ping) Stack
    GSM/GPRS 2G/3G/LTE/NB-IoT miniPCIe Modem*
    Wi-Fi IEEE 802.11 b/g/n / Bluetooth BLE 4.2 miniPCIe Modem*
- RS232 Port (300-115200 Baud)
    RS485 Port (300-115200 Baud)
- USB 2.0 (VCOM, HID)
- 2x Relay Outputs (1.5A max.)
    4x Optical Isolated Digital Input
- Offline Operational Mode
    Real time clock with backup battery (RTC)
    Real audio output with internal amplifier and speaker
    4 LEDs Display
- 6-35V DC Operation Voltage
    PoE (Power Over Ethernet) with PoE Injector Hardware
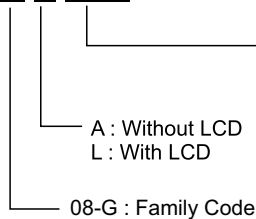- -20 °C … +70 °C Operational
- -30 °C … +80 °C Storage

    * optional

Input / Output Schematics

NPN Input Case

Switch / Push Button Case

Relay Output (Normally Open)

Relay Output (Normally Closed)

Relay Output (with NC & NO)
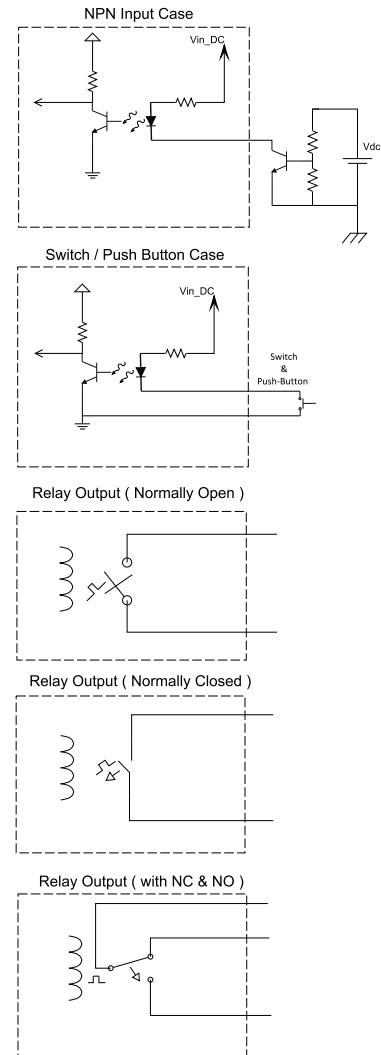
NOTES:
- Enclosure is also available.

Ordering Information
MCRXX X-XXX-OEM

- U : USB Port
- M: MDB Port
- E : Ethernet Port
- R3 : RS232 Port
- R4 : RS485 Port
- RL : Relay (2 for dual Relay)

- A : Without LCD
- L : With LCD

- 08-G : Family Code

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS

CE

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MCR08-G contactless MIFARE card reader

Dimensions (mm)