



MCR02 is a multi-purpose, programmable, fully Online, 13.56 MHz RFID Card Reader terminal usable in Access Control, PACS applications. Enables connection to a remote server by using standard Socket (TCP, UDP) or Web (HTTP, ASP, PHP, etc.) through internal TCP/IP software cluster. Server can control units of terminal such as LCD Display & Buzzer and Relay.

The terminal also supports read/write and programming of cards with MIFARE® and ISO14443A standards in PC (Windows/Linux/Mac) environment with USB, RS232 or RS485 communication options.

Terminal is also provided as OEM module for system integrators.

Application Areas:

- Access/Time Control
- Personnel Attendance Control Systems
- Cashless and/or Closed Circuit Payment Systems (Mass Transit Systems, Campus Card, Cafeteria, etc.)
- Card Reader/Programmer



Ethernet Connection

MCR02 can perform TCP/IP connection via Ethernet, perform instant data and file exchange by connecting to advanced services such as socket, HTTP Web Service and FTP.



Barrier and Turnstile Control

With relay output and optically isolated input, can directly control turnstiles and barriers, read access info and transmit when needed. Connects to additional systems through RS232 and RS485 connection.



MIFARE® Standard

Performs read and write processes of MIFARE® Classic 1K, Plus, DESFire and Ultralight cards rapidly and reliably. Supports static and dynamic encoding.



Closed Circuit Payment

Performs validation procedures such as payment, credit deduction, time and day controls. Manages permitted and banned cards with Whitelist and Blacklist feature.



KEY FEATURES

- 13.56 MHz Contactless MIFARE /RFID Reader (4-Byte, 7- Byte UID Support)
- 3.3" 128x64 Pixel Blue-White Monochrome LCD Display
- Ethernet
- PoE *(Requires Additional Hardware)
- Online Operation
- Easy Configuration & Control Over Network
- Internal Relay & Digital Input
- Card Reading/Programming Over USB /RS232 /RS485



TECHNICAL SPECIFICATIONS

Read / Write	MIFARE® ISO14443A 5cm Contactless Reading Range Classic, Plus and Ultralight Contactless Card Read/Write
Display	3.3" Graphic LCD, 128 x 64 Pixel LED Backlight Blue-Write Display
Communication	Ethernet 10Base-T Globally Unique MAC Address Integrated TCP/IP Stack TCP/IP Client-Server Roles UDP Support DHCP/Static IP Operation ICMP Ping Support Remote Configuration with miFinder Software over Local Area Network USB 2.0 RS232 Port (300-115200 Baud)* RS485 Port (300-115200 Baud)*

Processor	32-bit ARM Cortex CPU
Memory	1MB Built-in Flash E2prom
Input/Output	2x Relay Outputs (1.5A Dry Contact) 4x Optically-Isolated Digital Inputs
Additional Specifications	Online Operation Mode Battery Backup Internal Real Time Clock (RTC) Buzzer Audio Alert
Power	6-35V DC Operating Voltage PoE (Power Over Ethernet) Feature (with PoE Injector Hardware)*
Environmental Conditions	-30°C ... +75°C Operating Range -40°C ... +85°C Storage Range
Size	115 x 83 x 32 mm

*Optional