

ID CPR50.10-E

## RFID CARD READER FOR IP-BASED SYSTEMS

- Wall fastening
- Fast 10BASE-T / 100BASE-TX Ethernet Interface
- Power over Ethernet (PoE)
- Encrypted data transfer via Ethernet
- Reader modes "Polling Mode" and "Notification Mode"
- Suitable for indoor and outdoor use (IP54)
- Optional: external Relay



The ID CPR50.10-E is a wall mountable card reader for applications like access control, people identification at self-service terminals etc. It supports transponders following the ISO standards 14443-A & -B and ISO 15693. The ID CPR50.10-E can also communicate with NFC-devices.

Due to the Ethernet-port in accordance 10BASE-T / 100BASE-TX an easy integration in existing LAN Networks is possible. Power supply can be Power over Ethernet. This ensures a fast, economical and secure installation process.

The operating mode "Notification-Mode" reduces data traffic between the card reader and the host to a minimum. The host system needs only to initialize a data transfer if the card reader has reported a transponder.

The data transfer between card reader and host can be secured with the AES Algorithm (Rijndael-Algorithm) with a 128 Bit encryption key.

With an optional I/O Card (ID CPR.I/O-A) one relay and two digital Inputs are available. The ID CPR.I/O-A option can be mounted away from the card reader in a secure area providing a more tamper-proof system.

The maximum power supply when using the ID CPR.I/O-A is 24 V DC.

# RFID CARD READER FOR IP-BASED SYSTEMS

ISO14443 / ISO15693 reader with encrypted data transfer for integration in LAN networks.

## Technical data

### Dimensions (w x h x d)

Card reader 84.2 mm x 84.2 mm x 22 mm

Wall-mounted housing 77.7 mm x 77.7 mm x 18 mm

**Weight** approx. 150 g

### Housing

Corpus Plastic ASA

Front panel Acrylic glass

### Color

Corpus white

Front panel black

**Protection class** IP54

**Operating frequency** 13.56 MHz

**RF transmitting power** 250 mW  $\pm$ 2 dB

**Supply voltage** Power over Ethernet (PoE), IEEE802.3af, alternative external power supply 24 V up to 48 V DC  $\pm$ 10 %

**Power consumption** max. 3.8 W

**Supported transponders** ISO 14443-A<sup>1</sup>, ISO 14443-B<sup>2</sup>, ISO 15693<sup>3</sup>, NFC<sup>4</sup>

**Antenna** integrated, approx. 70 mm x 70 mm

**Interface** Ethernet 10BASE-T / 100BASE-TX, automatic MDI/MDI-X Crossover correction, TCP/IP-Protocol

**LEDs** blue: Power and TCP/IP-Link, green + red: Host-controlled

**Buzzer** integrated

**Inputs / Outputs** 1x Relay with optional I/O Card ID CPR.I/O-A, 2x digital inputs with optional I/O Card ID CPR.I/O-A

**Reading/writing distance** max. 7 cm<sup>5</sup>

### Temperature range

Operation -20 °C up to +70 °C

Storage -40 °C up to +85 °C

**Relative humidity** 95 % (non-condensing)

**Memory** EEPROM for configuration data, 1 million write cycles

<sup>1</sup> e.g. mifare® classic (mini, 1k,4k), mifare® UltraLight, mifare® DESfire, Smart MX, my-d® proximity, SLE44R35S, SLE55R..., etc.; Jewel™

<sup>2</sup> e.g. SLE66CL, ST19XR34, RF360 etc.

<sup>3</sup> e.g. I-CODE SLI, Tag-it HFI, my-vicinity, STM LRIS12 etc.

<sup>4</sup> NFC Type 1, 2 and 4 in NFC Card-Emulation-Mode

<sup>5</sup> Distance depends on type of transponder used; listed reading distance is for a transponder inlet of 76 mm x 45 mm

## Standard conformity

### Radio license

Europe, UK EN 300 330

USA FCC 47 CFR Part 15

**EMC** EN 301 489

**Safety & Health** EN 62368-1, EN 50364

**Others** RoHS-2002/95/EC, WEEE-2002/96/EC



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## Scope of delivery

Card reader ID CPR50.10-E

Wall-mounted housing for surface mounting  
Installation manual

## Options

ID CPR.I/O-A

I/O-Module with one relay and two digital inputs