

## RFID Card Reader for IP-based Access Control Systems ID CPR50.10-E (13.56 MHz)



### FEATURES

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



## **Description**

The ID CPR50.10-E is a wall mountable card reader for the following applications: Access Control, Time & Attendance, electronic ticketing. It supports transponders following the ISO standards 14443-A & -B and ISO15693. 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 24V DC.

### **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

## **Technical Data**

Dimension	
Card reader	84,2 x 84,2 x 22 mm / 3.31 x 3.31 x 0.87 inch
Wall-mounted housing	77,7 x 77,7 x 18 mm / 3.06 x 3.06 x 0.71 inch
Housing	Plastic (ASA), Front: Acrylic Glass
Color	white & black (front)
Weight	approx. 150 g / 5.3 oz.
Protection Class	IP 54
Frequency	13.56 MHz
RF-Power	250 mW +/- 2 dB
Power Supply	Power over Ethernet (PoE) IEEE802.3af Alternative: external power supply 24V up to 48V DC $\pm$ 10%
Power Consumption	max. 3.0 W
Supported Transponder	ISO 14443-A <sup>1</sup> , ISO 14443-B <sup>2</sup> , ISO 15693 <sup>3</sup> , NFC <sup>4</sup>
Antenna	Internal, appr. 70 x 70 mm
Communication	Ethernet 10BASE-T/100BASE-TX, Automatic MDI/MDI-X Crossover-Correction TCP/IP-Protocol
LEDs	Blue: Power und TCP/IP-Link Green + Red: Host-controlled
Buzzer	Integrated
Inputs/Outputs	One Relay with optional I/O Card ID CPR.I/O-A Two digital Inputs with optional I/O Card ID CPR.I/O-A
Write- Read Distance	max. 7 cm / 2.75 inch <sup>5</sup>
Temperatures	
Operating	-20 °C to 70 °C
Storage	-40 °C to 85 °C
Relative Humidity	95 % (non-condensing)
EEPROM	1 Million Write cycles

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

<sup>2</sup>) z.B. SLE66CL, ST19XR34, RF360 etc.

<sup>3</sup>) z.B. I-CODE SLI, Tag-it HFI, my-vicinity, STM LRI512 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 x 45 mm

## **STANDARDS CONFORMITY**

Radio Approval	
Europe	EN 300 330
USA	FCC 47 CFR Part 15
EMV	EN 300 489
Safety	
Low Voltage	EN 60950
Human Exposure	EN 50364
Environment	RoHS-2002/95/EC WEEE-2002/96/EC

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