IDENTIFICATION

RFID Card Reader with integrated Access Controller for IP-based systems ID MAX50.10-xE (13.56 MHz)



FEATURES

- → Offline management of up to 9.000 users (Stand-alone operation)
- → Optional Power over Ethernet (PoE) or external power supply
- → AES-encrypted Ethernet-Data transfer
- ➔ Operates with ISO14443-A/-B and ISO15693 transponders
- ➔ Identification via serial number(UID, CSN) or freely configurable data area
- → Real time clock & time zones
- → Configurable event memory
- → External relay optional





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System description

ID MAX50.10-xE is a cost effective alternative to traditional access control solutions. The fast Ethernet interface (10BASE-T / 100BASE-TX) allows an easy integration into IP-based network infrastructures with CAT-5 cables. The AES-encrypted data ensures a high system security and protects the access control infrastructure effectively against attacks by intercepting or tampering.

ID MAX50.10-xE is a complete and independently-working access control terminal for up to 9000 users. It combines card reader, door controller and access controller in one device. The dimensions are the same as those of a conventional RFID smart card reader. The ID MAX50.10-xE checks access permissions offline, without a live connection to a host system. The integrated real time clock allows the management of temporal restrictions with up to 16 time slots.

Events can be stored locally at the ID MAX50.10-xE in a configurable event memory. Optionally, events can be immediately reported to a host system via notification in the operation mode "Access Mode". The event memory can be adapted to different data protection laws, but it can be also completely disabled.

Power is supplied via Power over Ethernet (PoE) according to EEE802.3af or via an external DC power supply.

ID MAX50.10-xE supports passive transponder according to ISO / IEC 14443 type A and type B, ISO / IEC 15693 and communicates with NFC devices (ISO / IEC 18092). As an identifier, ID MAX50.10-xE can examine either the serial number (UID / CSN) or user-selectable memory areas of the transponder.

Because of the open software architecture and compatibility with other RFID readers from FEIG ELECTRONIC, the device can be easily incorporated into various applications. That for, software development kits (SDK) for current operating systems and programming environments are available.

Typical applications for the ID MAX50.10-xE are in industrial and commercial installations. Each unit can be a part of a complex access control system with widely distributed access points. Furthermore it can also be used for single doors in small and medium-sized installations.

ID MAX50.10-xE is available in two versions:

1. ID MAX50.10-RE

This version has an internal relay and is suitable for the control of doors with medium security requirements.

2. ID MAX50.10-E

In this version the external I/O Extension Board **ID CPR.I/O-A** with 2 digital inputs and one relay can be connected. The external relay ensures maximum security, as it can be placed inside the area to be secured.

Delivery:

- ID MAX50.10-E resp. ID MAX50.10-RE
- Wall-mounted housing for surface mounting
- Mounting instruction

Accessories:

ID CPR.I/O-A: I/O-Extension Board with one relay and two digital inputs (only for ID MAX50.10-E)



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TECHNICAL DATA

Dimensions	
Card Reader	84 mm x 84 mm x 22 mm
Wall-mounted housing	78 mm x 78 mm x 18 mm
Housing	Corpus: Plastic ASA / Front panel: acrylic glass
Color	Corpus: white / Front panel: black
Weight	approx. 150 g
Protection class	IP 54
Operating frequency	13.56 MHz
RF Transmitting power	250 mW ± 2 dB
Supply voltage	Power over Ethernet (PoE), IEEE802.3af;
	alternative: ext. power supply 24V up to 48 V DC \pm 10%
Current consumption	maximum 2.6 W (IEEE802.3af Powered Devices Class: 1)
Supported transponders	ISO 14443-A ⁽¹ , ISO 14443-B ⁽² , ISO 15693 ⁽³ , NFC ⁽⁴
Antenna	integrated, approx. 70 mm x 70 mm
Interface	Ethernet 10BASE-T/100BASE-TX, Automatic MDI/MDI-X Crossover correction
	TCP/IP protocol, IPv4
Cable specification	maximum 100 m CAT-5 cable
LED's	3 x (blue, green and red) with configurable function
Buzzer	integrated
Real time clock	24 h power reserve; Accuracy: ± 2 sec/day
Inputs / Outputs	ID MAX50.10-RE:
	1 x Relay (normally open contact); contact rating: 24 V AC/DC 1,5 A
	ID MAX50.10-E (with I/O-Extension Board ID CPR.I/O-A):
	1 x Relay (change-over contact); contact rating: 24 V AC/DC 1,5 A
	2 x digital Inputs
Memory	FRAM for user data, 10 ¹⁴ write cycles
	EEPROM for configuration data, 1 Million write cycles
Reading / Writing distance	typical 3 up to 10 cm ⁶
Temperature range	
Operation	−20 °C up to +55 °C
Storage	–40 °C up to +85 °C
Relative air humidity	95 % (non condensing)

¹⁾ z.B. mifare[®] classic (mini,1k,4k), mifare[®] UltraLight, mifare[®] DESfire, Smart MX, my-d[™] proximity, my-d[™] move, SLE44R35S, etc.
²⁾ z.B. SLE66CL, ST19XR34, RF360, etc.
³⁾ z.B. I-CODE SLI, my-d[™] vicinity, STM LRI512, Tag-it HFI, etc.
⁴⁾ NFC Type 1, 2 and 4 in NFC Card Emulation Mode
⁵⁾ Desting difference the set of th

⁵⁾ Reading distances depend on the used transponders; here made statements relate on an inlet size of 76 x 45 mm (3.00 x 1.78 in)

STANDARD CONFORMITY

Radio license Europe USA Canada EMC Safety Low voltage Human Exposure Environment

EN 300 330 FCC 47 CFR Part 15 IC RSS-GEN, RSS-210, RSS-212 EN 300 489 EN 60950 EN 50364

RoHS-2002/95/EC WEEE-2002/96/EC



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