ID CPR46.10

THE ROBUST RFID INTERFACE FOR MACHINES & SELF-SERVICE TERMINALS

– Designed for flush mounting in front panels of metal

– Built-in device for ticket-, parking- and vending machines as well as charging stations

– IP65 protected front, IK10 vandalism proof rating

– 4 SAM sockets

– Tested RFID interface

– Interfaces: USB & RS232

RFID reader for flush mounting into metal

ID CPR46.10 is a robust RFID Card Reader, which can be flush mounted into machines, self-service kiosks and terminals made of metal.

Equipped with high protection class (IP65) and high impact resistance level (IK10), the Mifare reader provides maximum protection against environmental influences and vandalism.

Due to an automatic power management and a very low standby power consumption, the reader is optimally suited for solar- and battery-powered machines and terminals.

Data transfer between reader and host can be encrypted according to AES 256.

FLUSH MOUNTING IN MACHINES

ID CPR46.10 is a robust RFID Card Reader that allows
flush mounting in front panels made of metal!

Technical data

Dimensions (w x h x d)	120 mm x 120 mm x 33 mm (overall dimensions)
	85 mm x 85 mm (visible cutout after installation)
Weight	approx. 250 g
Housing	Plastic
Protection class	IP65 (front), IP30 (back)
Impact resistance level	IK10
Supply voltage	5 V DC or 8 V – 42 V DC
Power consumption	
Operation	500 mA maximum
Standby-Mode	approx. 100 µA (5 V input voltage)
Operating frequency	13.56 MHz
RFID Interfaces	ISO/IEC 14443-A/-B
	EMV Contactless Level 1 (tested according to version 2.1)
Antenna	integrated
Power management	automatically, wake-up by card, wake-up by host
Host interfaces	USB, RS232, RS232-LVTTL
Smart card interface	4 SAM sockets according to ISO 7816 (variant ID CPR46.10-4SUSB)
MTBF	500,000 hours
Optical indicators	4 green LEDs (EMV-Mode) or green / yellow / red LED
Buzzer	integrated
Supported transponders	mifare classic (mini, 1k, 4k), mifare UltraLight, mifare DESFire, Smart MX, my-d proximity, SLE44R35S, SLE55R etc., Jewel™, SLE66CL, ST19XR34, Rf360 etc., NFC Type 1, 2 and 4 in Read / Write and NFC Card-Emulation-Mode
Software development kits	Windows (C++, .NET, Java), Linux (C++, Java), Raspberry Pi
Temperature range	
Operation	–25 °C to +70 °C
Storage	–40 °C to +80 °C
Relative humidity	0 % to 95 % (non condensing)

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Standard conformity

Radio approval	
Europe	EN 300 330
EMC	EN 301 489
Safety and health	
Low voltage	EN 62368-1
Human Exposure	EN 50364
Environment	
WEEE	2002/96/EC
RoHS	2002/95/EC