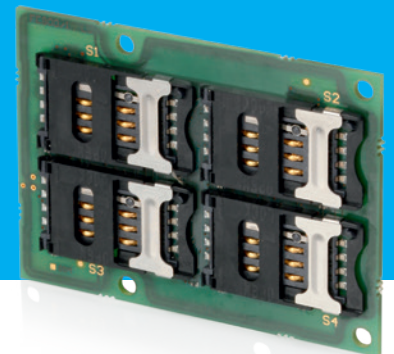


ID CPR74

## RFID READER MODULE WITH 4 SAM SOCKETS

- High End Performance
- 4 SAM sockets (ID000 Format); tested according to EMVCo Contact Level 1
- Operation with internal and external antenna (integrated antenna multiplexer)
- High density of integration / compact design
- ISO 14443 / ISO 15693 / ISO 18000-3M3
- Supports NFC applications
- RS232-TTL and USB interface



### Variable Multitag Read / Write device

ID CPR74 is a 13.56 MHz Proximity Read / Write device supporting transponders according to ISO 14443 Type A and Type B, ISO 15693, ISO 18000-3M3 as well as NFC devices according to ISO 18092.

The Reader Module is certifiable for applications like VDV-KA and ITS0. The 4 SAM sockets are tested according to EMVCo Contact Level 1.

Compact design and two alternatively usable interfaces (RS232-TTL or USB) enable an easy integration in terminals, housings and other devices.

### Comfort and Safety for your application

Due to the integrated antenna multiplexer the internal antenna can be operated with an additional external antenna. The reader mode "Scan-Mode" allows an automatic switch between both antennas.

The SoftCrypto and SAMCrypto High-Level-Functions offer a comfortable and fast interface for access to encrypted data of mifare DESFire (EV0, Ev1), mifare PLUS and mifare Ultralight C.

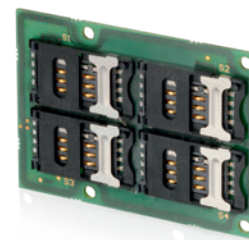
Convenient access to newer chips such as mifare DESFire EV2 or NTAG 424 DNA via a secure communication channel.

## TWO READING POINTS IN ONE DEVICE

Operation with integrated and external antenna (integrated multiplexer), for example in vending machines or onboard-computers in buses and trains.

### Technical data

<b>Dimensions (w x h x d)</b>	50 mm x 68 mm x 8 mm (ID CPR74-CUSB without SAM sockets) 50 mm x 68 mm x 10 mm (ID CPR74-4SCUSB, with 4 SAM sockets)
<b>Weight</b>	approx. 20 g
<b>Temperature range</b>	
Operation	-25 °C up to +70 °C
Storage	-40 °C up to +85 °C
<b>Relative humidity</b>	5 % up to 95 % (non-condensing)
<b>MTBF</b>	500,000 h
<b>Supply voltage</b>	5 V DC $\pm$ 5 %
<b>Power consumption</b>	< 500 mA (without SAM's); Standby Mode / Sleep Mode
<b>Interfaces</b>	RS232-TTL (up to 230,400 Baud), USB Full-Speed (12 MBit/s)
<b>I/Os</b>	3 digital outputs, 2 LED's
<b>RFID interface</b>	ISO 14443-A / -B (106 ... 848 kBit/s), ISO 15693, ISO 18000-3M3
<b>Operating frequency</b>	13.56 MHz
<b>Transmitting power</b>	450 mW
<b>Antenna connector</b>	U.FL connector for external antenna
<b>Smartcard interface</b>	ISO 7816 - 4 SAM sockets (Id000 format) - T=0 and T=1 protocol - Voltage categories A, B & C
<b>Reader modes</b>	Polling-Mode, Scan-Mode
<b>Supported transponders</b>	mifare classic, mifare UltraLight, mifare DESFire, mifare PLUS, mifare UltraLight C, my-d move, Jewel™, FeliCa, NTAG, mifare / NTAG Ev2 Crypto Tag-It HFI, Fujitsu MB89R11x, STM24LRx, STMLR12k, I-Code SLI / SLIX, I-Code ILT NFC Devices in Card Emulation Mode (Tag Type 1 ... 5), NFC Peer-to-Peer (P2P)
<b>Software development kits</b>	Windows (C++, .NET, Java), LINUX (C++, Java), Raspberry Pi
<b>USB driver, PC / SC driver</b>	Windows Server 2012 and 2016, Windows 7, 8 and 10 32/64 Bit
<b>Radio approvals</b>	
Europe	EN 300 330
North America	FCC, IC
<b>EMC</b>	EN 301 489, ISO 11452-2 / -4 (Functional status C)
<b>Security</b>	
Low voltage	EN 60950
Human Exposure	EN 50364
<b>Environment</b>	WEEE – 2002/96/EC, RoHS – 2002/95/EC
<b>SAM sockets</b>	EMVCo Contact Level 1 (version 4.3)



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