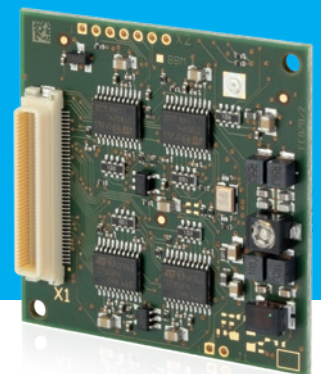


ID CPR60

RFID COMPACT MODULE

- Tiny module for integration into terminals, printers or handheld devices
- Interfaces for up to 4 smart card connectors according to ISO 7816 (for VDV-KA etc.)
- Highest flexibility by connecting individual external antennas
- Multi-standard HF reader module (ISO 14443 / ISO 15693)
- Variable interfaces: RS232-LVTTL, USB and SPI
- Standard FEIG Reader-Protocol
- Standby mode (Wake-Up-by-Card or Wake-Up contact)

**ID CPR60, the tiny all-rounder from FEIG**

The ID CPR60 is a 4 x 4 cm small RFID reader that supports contactless smart cards and transponders according to ISO / IEC 14443 A / B and ISO 15693. It also offers interfaces for up to 4 smart card connectors according to ISO 7816 and is therefore suitable for ticket applications in public transport (VDV-KA).

The ID CPR60 reader module was developed for integration in terminals, printers, handheld devices, etc. Own 50 Ohm antennas can be connected variably and allow the module to be used flexibly in individual applications.

On request, the module can be expanded to include other standards such as ISO 18000-3M3 or NFC peer-to-peer (P2P; Passive Initiator Mode) in accordance with ISO / IEC 18092.

Accustomed handling and high functionality

For host communication a USB interface, a serial interface (RS232-LVTTL) and an SPI interface are available. The ID CPR60 offers a standby mode to reduce power consumption to a minimum. The "wake-up-by-card" and "wake-up contact" options are available to wake up the device.

The architecture of the ID CPR60 is based on the wellknown ID CPR family from FEIG. This makes the device compatible with all other CPR products in terms of functionality and interface protocol and e.g. just as powerful as the larger module ID CPR74.

In addition to the CPRStart software for demonstrating and configuring the reading functions and the firmware update tool, numerous SDKs and drivers are available to support easy integration into the customer application.

For developers a development board for programming applications is available, too.

THE SMALLEST RFID READER MODULE FROM FEIG

Only 4x4 cm small with interfaces for up to 4 smart card connectors (VDV-KA). Ideal for integration into terminals, printers and handheld devices in the field of public transport.

Technical data

| | |
|--|--|
| Dimensions (w x h x d) | 41 mm x 41 mm x 6.5 mm |
| Weight | approx. 10 g |
| Temperature range | |
| Operation | -25 °C up to +70 °C |
| Storage | -40 °C up to +85 °C |
| Relative humidity | max. 95 % (not condensing) |
| Power supply | for digital circuit: 3.3 V DC + 5 % (max. power consumption: 100 mA) for analog circuit: 5 V DC + 5 % Ripple: 0...250 kHz < 10 mVpp; up from 250 kHz < 0.1 mVpp Max. power consumption peak (excl. SAM): 300 mA Typ. power consumption with RFID (excl. SAM): 200 mA |
| Power consumption | < 400 mA (excl. SAM's); < 25 mA Standby mode; < 50 mA Standby mode with Wake-Up-by-Card |
| Interfaces | USB Full-Speed (12 MBit/s), Self-Powered Device; SPI (up to 16 MBit/s), Slave Device; RS232-LVTTL (4,800–921,600 Baud) |
| Drivers | USB Driver, PC/SC Driver (WHQL) for Windows 7, 8 and 10 (32/64 Bit) as well as Windows Server 2012 and 2016 |
| Connector (Vcc, USB, SPI, Smart Card) | 80-pole Board-to-Board connector |
| Supported transponders* | mifare classic, mifare UltraLight, mifare DESFire, mifare PLUS, mifare UltraLight C, my-d move, Jewel™, FeliCa, NTAG Tag-It HFI, Fujitsu MB89R11x, STM24LRx, STMLR12k, I-Code SLI/SLIX, NFC Devices in Card Emulation Mode (Tag Type 1 ... 5) |
| Software development kits | Windows (C++, .NET, Java), Linux (C++, Java), Raspberry Pi |
| RFID Interface | ISO 14443-A/-B (ISO-Mode: 106 ... 848 kBit/s; EMVCo Mode: 106 kBit/s), ISO 15693 |
| Operating frequency | 13.56 MHz |
| Transmitting power | typ. 450 mW |
| Antenna connection | U.FL Socket for external 50 Ohm antenna |
| Contact Interface | ISO 7816 – 4 SAM card interfaces – T=0 and T=1 protocol, – Power class A, B & C |
| Reader mode | ISOHost Mode (Polling Mode) |

* optional mifare/NTAG Ev2 Crypto and NFC P2P

Standard conformity

Radio Approval

Europe EN 300 330

North America FCC, IC

EMC EN 301 489

Safety & Health EN 62368-1, EN 50364

Waste and WEEE – 2002/96/EC, RoHS – 2002/95/EC

Hazardous Substances



ID CPR60