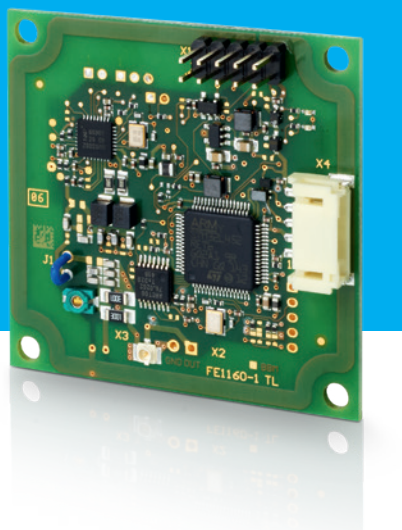
ID CPR70

RFID HYBRID MODULE

- Multi-standard HF reader module (ISO 14443 / ISO 15693 / ISO18000-3M3)
- Integrated high-level support for all common transponder types
- Digital outputs for connection with external LEDs etc.
- Operation with integrated or external antenna
- Variable interfaces: RS232-TTL and USB
- Standard FEIG Reader-Protocol



IDCPR70 – the hybrid reader module from FEIG

The ID CPR70 is a 5 cm x 5 cm small RFID reader that supports contactless smart cards and transponders according to ISO / IEC 14443 A / B, ISO 15693 and ISO 18000-3M3.

The ID CPR70 reader module was developed for integration in terminals, printers, handheld devices, etc.. In operation you can either used the integrated antenna or connect 50 Ohm antennas. This allows the flexible use of the module in individual applications.

The reader module also achieves variability by different interfaces as well as 3 digital outputs to connect external LEDs or similar.

High-end functionalities

For communication with transponders the reader module can use extensive high-level functionalities (SoftCrypto). The architecture of the ID CPR70 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.

In addition to the ISOStart 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.

HYBRID RFID READER MODULE WITH DIGITAL OUTPUTS

Only 5 cm x 5 cm small with high-level support for all common transponder types.
Ideal for applications in a confined space.

Technical data

Dimensions (w x h x d)	50 mm x 50 mm x 12 .6 mm
Weight	approx. 12 g
MTBF	500,000 h
Power supply	5 V DC ±10 % Ripple: 0...250 kHz < 10 mVss; up from 250 kHz < 0.1 mVss
Power consumption	< 350 mA
Operating frequency	13.56 MHz
Transmitting power	450 mW
Interfaces	USB Full-Speed (12 MBit/s) RS232-TTL (4,800 – 230,400 Baud)
I/Os	3 digital outputs; current per output: max. 12 mA 2 LEDs (green, red); LED-OUT (red LED): max. 10 mA
Supported transponders	ISO / IEC 1444-3, mifare classic, mifare UltraLight, mifare DESFire, mifare PLUS, mifare UltraLight C, NTAG, my-d move, Jewel™, FeliCa, Tag-It HFI, Fujitsu MB89R11x, STM24LRx, STMLRI2k, STM25, I-Code SLI/SLIX, I-Code ILT, I-Code DNA, 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 (106...848 kBit/s), ISO 15693, ISO 18000-3M3
Antennas	
Internal	integrated antenna
External	U.FL connector for external 50 Ohm antenna
Operating modes	ISO Host Mode (Polling Mode), Scan-Mode
Radio license	
Europe, UK	EN 300 330
USA	FCC 47 CFR Part 15
Canada	IC RSS-210
EMC	EN 301 489
Safety & health	EN 62368-1, EN 50364
Waste & hazardous substances	WEEE – 2002/96/EC, RoHS – 2011/65/EC
USB drivers	Windows Server 2016 and 2019 Windows 10 and 11; 32 /64 Bit
Temperature range	
Operation	–25 °C up to 70 °C
Storage	–40 °C up to 85 °C
Relative air humidity	max. 95 % (not condensing)

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