

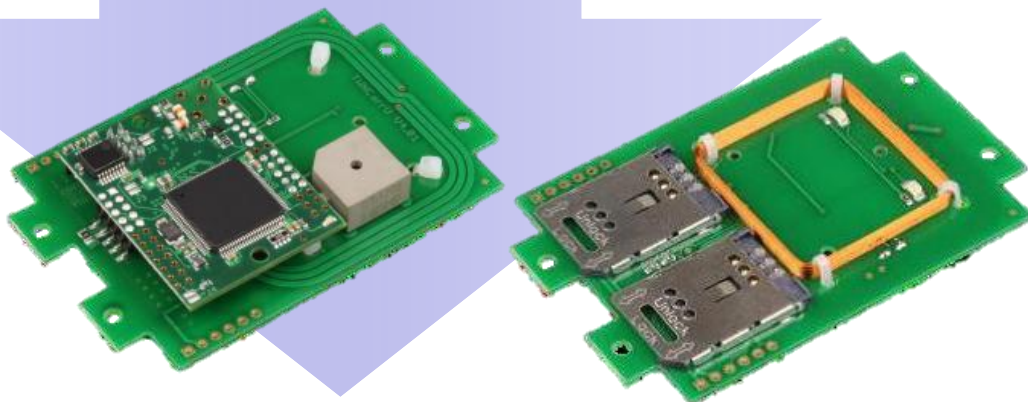
VF-FEINTECHNIK GmbH

RFID-Modul_Mifare

RFID-Modul vereint den HF und LF Bereich

Datenblatt

V1.6





This reader Family allows users to read and write to almost any 125kHz/134.2kHz and 13.56MHz tags and/or labels. It supports all major transponders from various suppliers like ATMEL, EM, ST, NXP, TI, HID, LEGIC, INSIDE etc. and ISO standards like ISO14443A/B including layer 4 (T=CL), ISO15693, ISO18092 / ECMA-340 (NFC).

All host communication can be done via USB, RS232 or serial TTL interface.

Special Features:

- Powerful SDK for writing Apps which are running directly on the reader
- Power down mode for lowest power consumption
- Two onboard SAM sockets (Secure Access Module)⁶⁾
- PC/SC 2.01⁶⁾
- Additional interfaces for OEM PCB version
 - o CAN₄, SPI₄, I²C
 - o Dedicated expansion bus for connection of LCD, mass storage, etc.
 - o 8 GPIOs

Worldwide certifications for worldwide sales:

WEEE, RoHS, R&TTE, CE (Europe),

FCC (USA), IC (Canada), ACA (Australia / New Zealand), VCCI (Japan), SRRC₄ (China), KCC (Korea), ANATEL (Brasil)⁶⁾

Technical Data:

Frequency	125kHz, 134.2kHz (LF) / 13.56MHz (HF)
Housing (optional)	Material ABS UL94-V0, colour black or white
Dimensions (L x W x H)	Desktop Reader: 88mm x 56mm x 18mm / 3.5inch x 2.2inch x 0.7inch OEM Board: 76mm x 49mm x 14mm / 3.0inch x 1.9inch x 0.6inch
Power Supply	4.3V..5.5V via USB or RS232; RS232 requires 5V external power supply; via connector CNB 3.3V +/-5%
Current Consumption	RF field off:20mA / Cyclic Operation: 2mA ₂ / Power down Mode: 10µA ₂ RF field on: 120mA typically
Temperature Range	Operating: -5°C up to +80°C (-13°F up to +176°F) Storage: -45°C up to +85°C (-49°F up to +185°F)
Read- / Write Distance	Up to 100mm / 4inch (depending on transponder)
HOST Interface	USB, RS232, serial 5V CMOS TTL, I ² C, SPI ₂ , Clock/Data ₃ , Wiegand ₃ , CAN ₂ ₃)
OS Support	Windows XP, Vista, 7 (32-/64-bit), 8, Linux
Transmission Speed	Host: USB: Full speed (12Mbit) – RS232: up to 115.200baud / Air: up to 848kbit/s
Modes of Operation	USB key board emulation –USB virtual COM port – Transparent (direct chip-commandssupport) CCID and PC/SC 2.01 (1)
Relative Humidity	5% to 95% non-condensing

**VF – FEINTECHNIK GMBH**

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Zutrittskontrollsysteme
 Sonderkonstruktionen
 Kartenlesegeräte
 Kartenspender
 Zubehör



Supported Transponders	Standard
	<p>-125kHz / 134.2kHz:4100, 4102, 42005), AWID, CASI-RUSCO, HITAG 16), HITAG 26), HITAGS6), Keri, Miro, Pyramid, TIRIS/HDX, UNIQUE, FDX-B, Q5,TITAN (4x50), T55x7, ZOODIACOptionally, in consideration:4305, Cardax, IDTECK</p> <p>-13,56MHz/ISO14443A: MIFARE Classic 1k & 4k, Mini, DESFireEV1, Plus S&X7), Pro X7), SmartMX7), Ultralight, UltralightC, SLE44R35, SLE66Rxx (my-d move)7), LEGIC Advant5), PayPass7)</p> <p>-13.56MHz / ISO14443B:Calypso7), CEPAS7), HIDiCLASS5), Moneo7), PicoPass7), SRI512, SRT512, SRI4K, SRIX4K</p> <p>-13.56MHz / ISO15693: EM4x337),EM4x357), HIDiCLASS5), ICODE SLI, LEGIC Advant5), M24LR16/64, Tag-it, SRF55Vxx (my-d vicinity)7), PicoPass7)</p> <p>-13.56MHz / ISO18092 / NFC: NFCIP-1:Activeandpassive communicationmode, Peer-to-Peer, NFC Forum Tag Type 1-4, Sony FeliCa6)</p> <p>Version P: Standard + Cotag, G-Prox8), HIDProx, Honeywell NexWatch, Indala, ioProx</p> <p>Version PI: Version P + HID iCLASS(CSN and Facility Code)</p>
Certifications	CE, R&TTE, RoHS-II compliant, FCC, IC, ACA, VCCI, SRRC4), KCC, ANATEL6)
MTBF	500.000 hours
Weight	Approx. 20 g (without housing)

1)in preparation 2)or request only 3)External Interfaces Required 4)Target Specification 5)UID only 6) Encryption Not Supported 7)UID/PUPI Only, Read/Write On Request 8)Hash Value Only