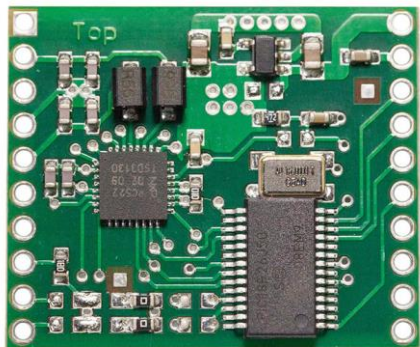


COMPACT-DES 13.56 MHz reader module

COMPACT-DES is a new RFID reader module based on NXP reader chips and supports Mifare Classic as well as Mifare DESFire. Also Legic Advant tags can be read by this module.



Mifare DESFire is commonly used in ticketing systems for public transportation. The higher security level allows also the use in contactless payment applications.

COMPACT-DES is developed with special attention for smallest dimensions and highest technical integration flexibility (e.g.: 3,3 Vdc to 5,0 Vdc). 4 additional I/O ports are available for customer-specific applications. The simple command structure allows for the module to be linked without high efforts into different applications. Data transfer is generally done over a TTL interface, but also USB interfaces in either keypad emulation mode or virtual COM-port mode, I²C, Clock/Data, Wiegand D0/D1, or real RS232 interfaces are optionally available.

This extremely small-sized 13.56 MHz RFID module can thus easily be integrated in different applications such as time & attendance terminals, POS systems, vending machines, handheld and desktop readers, ...

RFID technologies supported :

- ISO14443A
- Mifare
 - Classic 1k, 4k, Mini
 - DESFire EV1
 - Plus RF(identification protocols)
 - Ultralight
- LEGIC Advant

Technical specifications :

- Frequency : 13.56 MHz
- Dimensions: 31 x 26 x 3 mm
- Power supply : 3,3 to 5,0 Vdc
- Power consumption :
 - RF field on : 60 mA typ depending on antenna
 - RF field off : 2m typ
- Interface: Serial TTL
- Optional interfaces :
 - USB keyboard emulation mode
 - USB virtual COM-port mode
 - I²C
 - Clock/Data
 - Wiegand
 - RS232
 - for RS232 : 5V DC ± 10%
- Read range: up to 80 mm (depending on transponder type and environment)
- Temperature range: -25°C... +80°C
- Antenna : external