



HFS OEM module

The RFID IO-MODUL HF is a powerful compact RFID module for integration into industrial automation products. It supports transponders/smart labels of frequency 13.56 MHz according to ISO standard 15693 and is designed for retrofitting in standard housings. System integrators and OEM customers get the possibility to integrate high quality RFID functionality into new or existing products.

Technology

RFID-HF Frequency 13.56 MHz (ISO 15693)

Components

- » Compact printed circuit board with RFID functionality
- » Antenna integrated on PCBA (external antenna possible)
- » Available with and without housing

Functions

- » HF reader with medium reading range
- » Inputs and outputs for evaluation of trigger signals
- » Display of states & data (depending on transponder type)
- » Compatible with HF transponders according to ISO 15693
- » Interface RS232 or C-MOS

Features

- » Easy RFID integration into existing systems
- » individually adaptable to customer requirements
- » Number of I/Os is selectable
- » transmitting power 150mW
- » reading range approx. 100mm with HF transponder card

The highlights

OEM module for use in RFID customer products

Frequency: 13.56 MHz
Dimensions 100 x 50 x 8 mm
Compatible with transponders
According to ISO 15693
Interface RS232 or C-MOS

Low cost solution

Small, compact printed circuit board
Inexpensive RFID retrofit solution instead of expensive complete new acquisition

Housing and antenna variants

Available with and without housing
Integrated antenna on the PCBA
An external HF antenna is also available as an option, depending on location

Delivery form/variants

PCB without housing as ASCII RS232/TTL without IO
Printed circuit board without housing as ASCII RS232/TTL 4
Input +
3 Output Interfaces

Inputs and outputs

Evaluation of trigger signals via existing inputs possible, display of states

Customer specific functions

are possible and freely installable, number of I/Os is selectable

Easy integration into existing systems

Saves costs and effort serial communication
System integrators

Part number	Description		
	Interfaces	Protocol	I/Os
HRF.R.HFS.0I.AR.O0.10A	RS232/TTL	ASCII	Without
HRF.R.HFS.0I.AR.O4.10A	RS232/TTL	ASCII	3 In-, 4 Outputs

(Further variants and customer-specific configurations available on request)

Technical data

Interface: RS232, TTL
Protocols: ASCII
Antenna: integrated, optional external
Frequency: 13.56MHz, ISO15693
Transmit power: 150 mW
dimensions: 100 x 50 x 8 mm
Housing: optional, on request

Operating temperature: -20 °C to 70 °C
Storage temperature: -40 °C to 85 °C
Permissible humidity: at 50°C 25% to 80%
Voltage: 5 V (+/- 5%)
Current: 90 mA, standby: 40 mA
Conformity: CE, RoHS, REACH

