

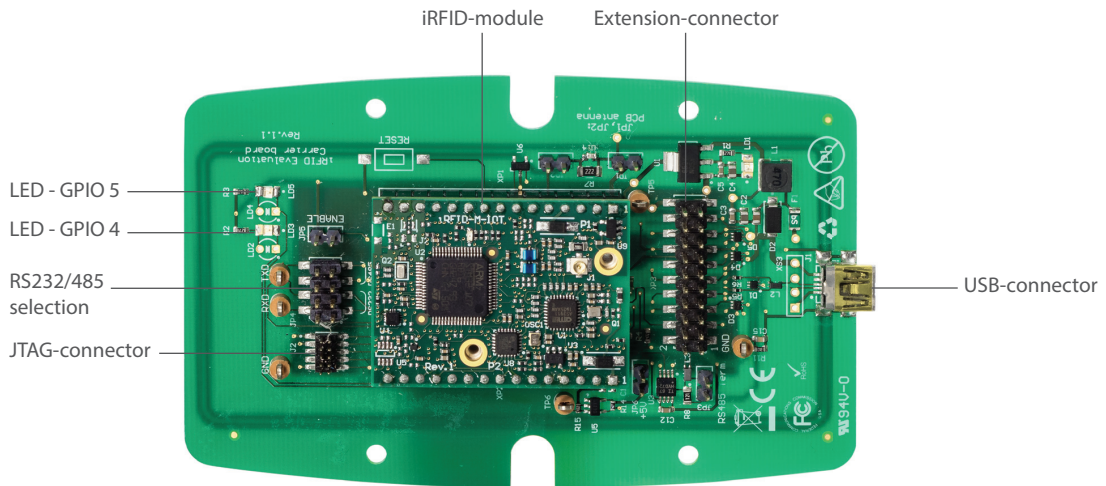
RFID-Module Evaluation Carrier

iRFID-EC

- Easy to use evaluation carrier to accelerate your design and application development
- Industry leading read / write distance
- Up to 5 GPIOs
- Supports USB, I²C, JTAG, Debug and RS232/485 interfaces
- Powerful software tools, incl. APIs and SDKs
- Designed, Engineered and Manufactured in Germany



RFID-Module Evaluation Carrier iRFID-EC



Description

The iRFID-EC is a fully featured, miniaturized carrier board for iRFID-M and -MU modules to design fully featured RFID applications.

Standard firmware supports all major industry standard protocols and interfaces.

A Software Development Kit (SDK), Firmware compatibility and extensive documentation will allow smooth integration into a variety of software environments and ease migration of platforms over a long term product lifecycle.

Typical Verticals

Point of Sales (POS):	Ticketing, Inventory Control
Point of Information (POI):	Portable Readers
Industrial Automation:	Access Control
Medical & Healthcare:	Authorization & Identification
Logistics:	Supply Chain Management

RFID-Module Evaluation Carrier

iRFID-EC

Technical Information

Protocols	• ISO15693, ISO14443A/B, ISO18092, DES-Fire, Felica, EMVCo
Antenna	• Internal
Transmitting Power	• Up to 1000 mW, Software configurable
Operating Frequency	• 13.56 Mhz
Read Distance	• Up to 18 cm (controlled by antenna type and environmental conditions)
Write Distance	• Approx. 100 % of reading distance
I/O Pins	• 5 software controllable and configurable GPIO pins • 3 programmable analog inputs
Software Support	• SDK & libraries for Windows and Linux
Host Interface	• I ² C, USB HID, USB CDC (Virtual Serial Port), RS232/485
Debug-Interface	• JTAG, Debug/Extension connector
Specifications	<ul style="list-style-type: none"> • Physical (W x L x H) Weight 100 g, 68.2 mm x 108.1 mm x 12 mm • Electrical <ul style="list-style-type: none"> Voltage Input: +5 V DC +-5 % or USB Powered Input current: incl. iRFID-M! Operating = 215 mA Idle = 60 mA Sleep = 20 mA • Environmental Operating Temperature 0 °C to +50 °C

Ordering Information

Article	Part.-No.	Description
iRFID-EC	10011E-00-01-01	Evaluation carrier board for iRFID-M and -MU modules with integrated antenna, USB, RS232/485, JTAG and I ² C interfaces, incl. USB connection cable, Commercial Temperature 0 °C to +50 °C