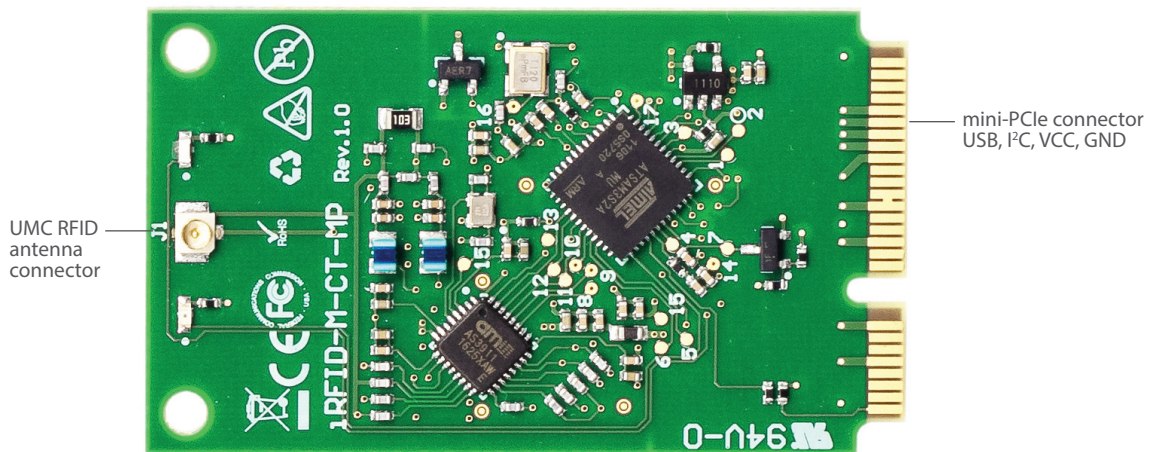


mini-PCIe RFID HF-Reader Module

## iRFID-M-MP

- mini-PCIe form factor
- Industry leading read / write distance
- Ultra low standby current
- Supports USB and I<sup>2</sup>C interfaces
- Powerful software tools, incl. APIs and SDKs
- Designed, Engineered and Manufactured in Germany

mini-PCIe RFID HF-Reader Module  
iRFID-M-MP



**Description**

iRFID-M-MP is a highly integrated mini-PCIe form factor RFID HF-reader which includes all necessary functionalities 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, Vending Machines
- Point of Information (POI): Portable Readers
- Industrial Automation: Access Control
- Medical & Healthcare: Authorization & Identification
- Logistics: Supply Chain Management

## mini-PCIe RFID HF-Reader Module

### iRFID-M-MP

#### Technical Information

Protocols	• ISO15693, ISO14443A/B, ISO18092, DES-Fire, Felica, EMVCo
Antenna	• External: UMC antenna connector
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	• 2 software controllable outputs
On-Board Diagnostics	• Temperature sensor, Power consumption measurement
Software Support	• SDK & libraries for Windows and Linux
Host Interface	• I <sup>2</sup> C, USB HID, USB CDC (Virtual Serial Port), Default: 115200 Baud
Specifications	<ul style="list-style-type: none"> <li>• Physical (W x L x H) Weight 20 g, 30 mm x 50.95 mm x 5 mm</li> <li>• Electrical Voltage Input: +3.3 V DC Input current: Operating = 100 mA, Idle = 31 mA, Sleep = 180 µA</li> <li>• Environmental Operating Temperature 0 °C to +60 °C (Commercial) Operating Temperature -40 °C to +85 °C (Extended)</li> </ul>

#### Ordering Information

Article	Part.-No.	Description
iRFID-M-MP-CT	10022E-00-01-01	mini-PCIe RFID HF-reader module, Commercial Temperature 0 °C to +60 °C
iRFID-M-MP-ET	10023E-02-01-01	mini-PCIe RFID HF-reader module, Extended Temperature -40 °C to +85 °C