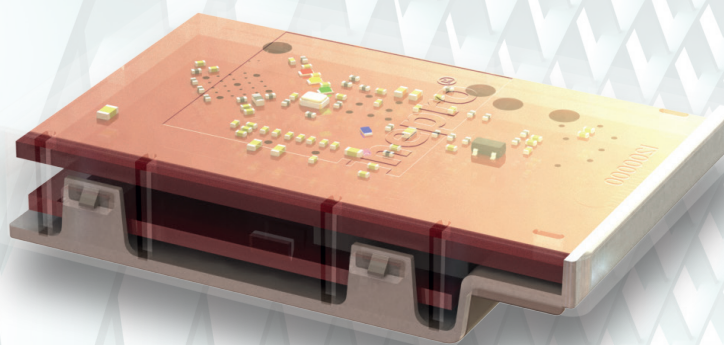




# Spider Core

High secure and managable RFID reader  
for LF, HF, NFC and BLE



5  
YEAR  
WARRANTY



## Total Control

The Spider Core is **inepro's** latest high-performance RFID reader. Due to its compact size, the Spider Core integrates perfectly in every device where it is built in. The Spider Core supports a wide range of LF and HF technologies (125kHz and 13.56 MHz) and by supporting NFC and Bluetooth Low Energy, the Spider RFID reader is perfectly suitable for mobile data communication and authentication. It can be linked via multiple communication protocols, i.e. USB, RS232, to embed it in any kind of machine and device such as multi-functional printers (MFP's), vending machines, E-charging solutions and many more.

### Spider features:

- Stand-alone operation
- Easy built-in integration for multifunctional -, network printers and devices
- Bulk supply to reduce eco footprint
- Integrated antenna on PCB
- SAM Socket, Secure Access Modules, ID-000 form factor
- Compatible with any device supporting USB or serial communication
- Supported USB communication: keyboard emulation, virtual comport, RAW
- Supported serial communication: RS232
- Integrated BLE module 2.4 GHz for data communication and authentication,
- Contactless config card for (re)configuration
- Config tool for (re) configuration (over network)
- Mobile app for (re) configuration
- Mobile app for user identification using NFC and BLE
- Touchless authentication via HF, NFC and BLE
- Secure element for secure data storage of firmware and configuration





## Technical data

- Housing : PC ABS V0, Two tone color, white and transparent
- Dimensions : 62,25 x 41,30 x 12,50 mm/2.45 x 1.62 x 0.49 inch (L x W x D)
- Weight : Approx. 23 g/0.81 oz (excl. cable)
- Frequency : 125kHz (LF), 13.56 MHz (HF), 2.4 GHz (BLE)
- Antenna : Integrated antenna on PCB
- Default output : Decimal number HID Keyboard output with enter
- Power supply : 4.3 V -5.5 V via pico blade connector
- Current Consumption : IRF field idle on: 150mA typically 280mA max
- Temperature range : Operating: -25 °C up to +85 °C (-13 °F up to +185 °F)
- Relative humidity : 5% to 95% non-condensing
- Read / Write distance : LF and HF: Up to 100 mm/4 inch, depending on transponder and environment
- Operating modes : USB keyboard emulation , USB virtual COM port, USB RAW, RS232
- Bluetooth low energy : Bluetooth v5.0, software upgradable; standards as GAP, SM, L2CAP, ATT; predefined GATT structure; AES128 supported
- MTBF : 500,000 hours
- Connectivity : Pico blade connector and variety of standard USB connectors, use only with original **inepro** cables
- Transmission speed : Host: USB Full speed (12Mbit/s), HF Air: up to 848 kbit/s, BT Air: up to 100 kbit/s
- Certification name : Spider
- Certification(s) : CE, FCC, IC, SRRC, MIC, RCM, WPC, UKCA, REACH and RoHS-III compliant

## Supported transponders 13.56MHz

- **ISO14443A/B:** LEGIC Prime all types, LEGIC KGH, LEGIC Advant all types, Mifare Classic, Mifare Classic EV1, Mifare Mini, Mifare DESfire Light/EV1/EV2/EV3, Mifare Ultralight Nano/C/EV1/AES, Mifare Plus S/X/EV1/EV2, Mifare Pro X, Mifare Smart MX, NFC HCE, NTAG2xx, SLE44R35, SLE55Rxx, SLE66Rxx, Bank cards
- **ISO18092:** ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa, NFC Active and passive communication mode
- **ISO15693:** LEGIC Advant all types, iCLASS\*, iCLASS SE/SR\*, i-CODE UID
- **ISO/IEC 14443 Type A:** HID Seos\*

\* The Spider is HID iCLASS/Seos compliant. To activate it, a HID Seos SAM card is required.

## Supported transponders 125kHz

- **ISO18000-2:** CS-AWID, Cardax, CASI-RUSCO, EM41xx and compatible EM4100/4102/4200, EM4050 (Titan), EM4105, EM4150, EM4305, EM4450, EM4550, Farpointe Pyramid, Gallagher, HID Prox, HID Prox II (1326), HID DuoProx II (1336), HID ProxKey III (1346), HID ISO Prox II (1386), HID Micro Prox (1391), HID Prox UDF, Hitag 1, Hitag 2, Hitag S, HID Indala, HID Indala ASP/ASP+ UIN, HID Indala 10022, Honeywell NexWatch, ioProx, Keri NXT, Nedap, NeoCardProx, Nexkey, Prox-lite, Q5, T5555, T5557, UNIQUE

## SKU

### Built-your-own reader:

- 200000 : Spider Core (single piece)
- 200000-20 : Spider Core (20 pieces, bulk)

### USB cables:

- P279240 : Spider USB Cable Type B Mini Male 6,5 cm 2.56 inch
- P279241 : Spider USB Cable Type A Male 17 cm 6.69 inch
- P279242 : Spider USB Cable Type B Mini Male 60 cm 23.62 inch
- P279243 : Spider USB Cable Type A Male 180 cm 70.86 inch
- P279244 : Spider Serial Cable 100 cm 37,00 inch
- P279245 : Spider USB Cable Type B Mini Male 180 cm 70.86 inch

### Accessories:

- 200001 : Spider Desktop Kit excl. USB cable
- 200002 : Spider Pocket Kit excl. USB cable
- 200003 : Spider Desktop MFP Kit excl. USB cable
- 200004 : Spider Pocket Landscape Kit excl. USB cable
- P275738 : Spider SAM Card HID Seos (cannot be ordered separately)

### Assembled sets: (including reader)

### incl. USB cable

- 200007 : Spider Desktop MFP Complete 180 cm 70.86 inch Type A Male
- 200009 : Spider Desktop MFP Complete 60 cm 23.62 inch Type B Mini Male
- 200011 : Spider Desktop MFP Complete 75 cm 29,52 inch Type A Male
- 200013 : Spider Desktop MFP Complete 15 cm 5,90 inch Type A Male
- 200017 : Spider Desktop Complete Serial 100 cm 37,00 inch Type 120RJ12