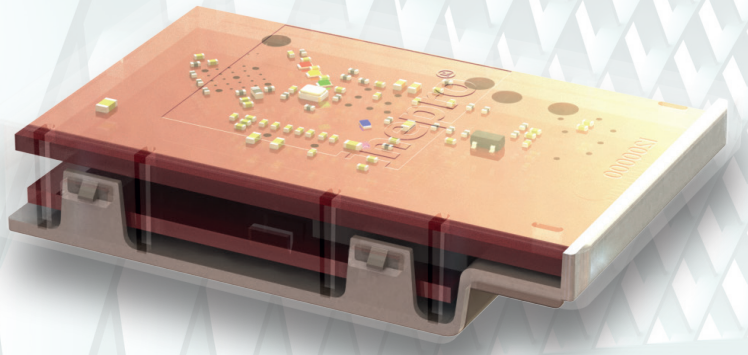
inepro®

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

CE
FC
IC
SRRC
UK CA
WPC

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 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, Proxlite, 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

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