

TWN4 SLIM

FLAT AND COMPACT RFID READER/WRITER SUPPORTING LF, HF, NFC AND BLE



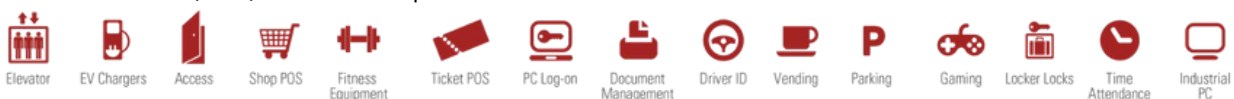
TWN4 Slim – front view TWN4 Slim – rear view

The new TWN4 Slim is Elatec's smallest compact and flat RFID reader – it's smaller than an ID-1 card. TWN4 Slim supports a huge range of LF and HF technologies (125 kHz and 13.56 MHz). With the support of NFC and Bluetooth Low Energy the reader supports mobile use cases for data communication and authentication. It can be operated as a standalone unit connected using a standard cable with a micro USB plug to PCs and other devices with USB interface.

TWN4 Slim is perfectly suited to embed it into machines and devices, and especially MFP printers with optional clip-on snap-in cover.

Special features:

- + Standalone operation and flush-mount integration into printers and other industrial applications
- + Mounting holes for easy and fast installation
- + Integrated LF and HF antennas
- + One socket for Secure Access Modules (SAM) cards, ID-000 form factor
- + Flexible cable with micro USB connector
- + Supported USB stacks: keyboard emulation, virtual comport and CCID/PCSC
- + Integrated BLE module 2.4 GHz for data communication and authentication, BLE v4.2, upgradable
- + Supports quick (re)configuration over network and over wireless interface with TWN4 CONFIG Card
- + Direct chip-commands support
- + Powerful SDK for writing apps which are executed directly on the reader
- + On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + TWN4 Upgrade Card for P and PI options available on request
- + Customizable design inlay
- + 3D construction data (STEP) available on request



TECHNICAL DATA

FREQUENCY	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)
ANTENNA	Integrated
HOUSING	ABS+PC blend, UL94-V0, color: black (core unit, clip adapter). Two 3.2 mm (0.13 inch) mounting holes for OEM integration (requires special inlay)
DIMENSIONS (L X W X H)	65.5 mm x 45.5 mm x 4.0 mm / 2.6 inch x 1.8 inch x 0.16 inch
POWER SUPPLY	4.3 V - 5.5 V via micro USB Limited power source according to IEC60950-1 or PS2 classified IEC 62368-1, short-circuit current < 8 A
CURRENT CONSUMPTION	Idle: 70 mA, RF field on: 135 mA typically (preliminary)
TEMPERATURE RANGE	Operating: -20 °C up to +60 °C (-4 °F up to +140 °F) Storage: -30 °C up to +70 °C (-22 °F up to +158 °F)
RELATIVE HUMIDITY	5% to 95% non-condensing
READ- / WRITE DISTANCE	LF and HF: Up to 80 mm / 3.15 inch, depending on environment and transponder
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01
BLUETOOTH LOW ENERGY	Bluetooth v4.2, software upgradable; standards as GAP, SM, L2CAP, ATT; predefined GATT structure; AES128 supported
MTBF	500,000 hours
WEIGHT	Approx. 18 g / 0.64 oz (without cable and holder)
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	<u>ISO14443A:</u> LEGIC Advant1), MIFARE Classic EV12), MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1, MIFARE DESFire EV23), MIFARE DESFire Light3), MIFARE Plus S, X, MIFARE Pro X4), MIFARE Smart MX4), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV12), NTAG2xx, PayPass4), SLE44R354), SLE66Rxx (my-d move)4), Topaz ISO14443B: Calypso4), Calypso Innovatron protocol4), CEPAS4), HID iCLASS1), Moneo4), Pico Pass5), SRI4K, SRIX4K, SRI512, SRT512 <u>ISO18092 ECMA-340:</u> NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa6), NFC Active and passive communication mode <u>ISO15693:</u> EM4x334), EM4x354), HID iCLASS1), HID iCLASS SE/SR1), ICODE SLI, LEGIC Advant1), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity)4), Tag-it, PicoPass5) AWID, Cardax, CASI-RUSCO, Deister8), EM4100, 4102, 42009), EM4050, 4150, 4450, 4550, EM430510), FDX-B10), EM410510), HITAG 111), HITAG 211), HITAG S11), ICT10), IDTECK, Isonas, Keri, Miro, Nedap8), PAC10), Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX10), TITAN (EM4050), UNIQUE, ZODIAC Requires TWN4 SIO Card, All Standard Transponders, All Option P Transponders, HID iCLASS, HID iCLASS SE/SR/Elite, HID iCLASS SEOS (Facility Code/PAC)12) All Standard Transponders, Cotag, G-Prox8), HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch Windows XP, Vista, Embedded CE10), 7 (32-/64-bit), 8, 8.1, 10, Linux, Android10), iOS10), MAC OS X10)
SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ7)	
SUPPORTED TRANSPONDERS (OPTION PI)	
SUPPORTED TRANSPONDERS (OPTION P)	
OS SUPPORT	
PERIPHERAL INTERFACES	
TRANSMISSION SPEED	
CERTIFICATION NAME	
CERTIFICATION(S)	Female micro USB, flexible cable, use only with CAB-BS1 – CAB-BS7 shielded cables Host: USB Full speed (12 Mbit/s), HF Air: up to 848 kbit/s, BT Air: up to 100 kbit/s
ORDER CODES	TWN4 Slim ACMA, CE/RED, FCC, IC, REACH and RoHS-III compliant Standalone reader without cable T4QC-FC3B7 TWN4 Slim

¹HID only ²r/w enhanced security features on request ³400-FC3B7-TWN4 Slim, Option P Mode UID only, read/write on request UID + r/w public area 125 kHz technology requires a Russian local test and import license from the ministry of Trade and Industry (MINPROMTORC). This license has to be in place before Elatec can accept any order to be shipped to Russia ⁸Hash value only ⁹Only emulation of 4100, 4102 10) On request 11) Without encryption 12) UID + PAC (Facility Code), r/w on request

ACCESSORIES	<p>HFQC-B: TWN4 Slim Mounting Frame black MECH-QHC1B: TWN4 Slim HIP1 Cover MECH-QHC2B: TWN4 Slim HIP2 Cover MECH-QRBF1: TWN4 Slim Rubber Feet 4pcs/set MECH-CCK3: Cable Clip Kit adhesive black (3pcs)</p>
CABLES	<p>CAB-BS1: Cable, Slim CC, Micro USB/Mini USB male bent, 10cm / 3.93 inch CAB-BS2: Cable, Slim CC, Micro USB/Mini USB female, 10cm / 3.93 inch CAB-BS3: Cable, Slim CC, Micro USB/USB A male, 12cm / 4.72 inch CAB-BS4: Cable, Slim CC, Micro USB/USB A male, 45cm / 17.7 inch CAB-BS5: Cable, Slim CC, Micro USB/USB A male, 120cm / 47.2 inch CAB-BS6: Cable, Slim CC, Micro USB/USB A male, 200cm / 72.74 inch CAB-BS7: Cable, Slim CC, Micro USB/Mini USB male, 60cm / 23.62 inch Individual kits available on request.</p>
KITS	<p>Kits are a compilation of the TWN4 Slim reader, accessories and packaging configuration (Boxed or bulk packaging). After the configuration of the Slim Kit, customers receive their own article number.</p>

DRAWING

