

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





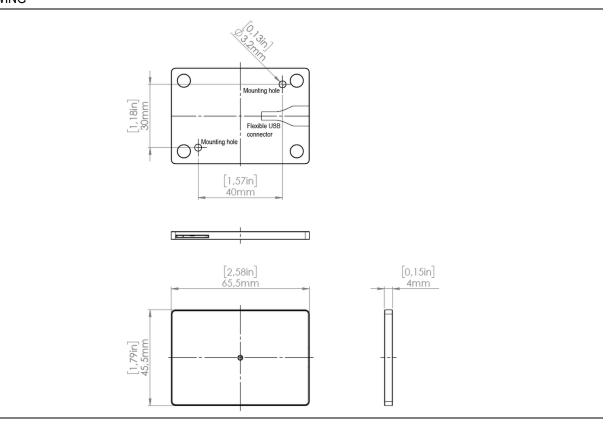
TECHNICAL DATA			
FREQUENCY	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)		
ANTENNA	Integrated		
HOUSING	ABS+PC blend, UL94-V0, color: black (core unit, clip adapter). Two 3.2 mm (0.13 inch)		
	mounting holes for OEM integration (requires special inlay)		
DIMENSIONS (L X W X H)	65.5 mm x 45.5 mm x 4.0 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)		
	<u>ISO14443A</u> :		
	LEGIC Advant ¹⁾ , MIFARE Classic EV1 ²⁾ , MIFARE Classic, MIFARE Mini, MIFARE		
	DESFire EV1, MIFARE DESFire EV2 ³ , MIFARE DESFire Light ³ , MIFARE Plus S, X,		
	MIFARE Pro X ⁴), MIFARE Smart MX ⁴), MIFARE Ultralight, MIFARE Ultralight C, MIFARE		
	Ultralight EV12), NTAG2xx, PayPass4), SLE44R354), SLE66Rxx (my-d move)4), Topaz		
	ISO14443B:		
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ ⁷)	Calypso ⁴), Calypso Innovatron protocol ⁴), CEPAS ⁴), HID iCLASS ¹), Moneo ⁴), Pico Pass ⁵),		
	SRI4K, SRIX4K, SRI512, SRT512		
	ISO18092 ECMA-340:		
	NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶ , NFC Active and passive		
	communication mode		
	ISO15693:		
	EM4x33 ⁴), EM4x35 ⁴), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹),		
	M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁴ , Tag-it, PicoPass ⁵		
	AWID, Cardax, CASI-RUSCO, Deister ⁸), EM4100, 4102, 4200 ⁹), EM4050, 4150, 4450,		
	4550, EM4305 ¹⁰ , FDX-B ¹⁰ , EM4105 ¹⁰ , HITAG 1 ¹¹ , HITAG 2 ¹¹ , HITAG S ¹¹ , ICT ¹⁰ ,		
	IDTECK, Isonas, Keri, Miro, Nedap ⁸ , PAC ¹⁰ , Pyramid, Q5, T5557, T5567, T5577,		
	TIRIS/HDX ¹⁰), TITAN (EM4050), UNIQUE, ZODIAC		
SUPPORTED TRANSPONDERS	Requires TWN4 SIO Card, All Standard Transponders, All Option P Transponders, HID		
(OPTION PI)	iCLASS, HID iCLASS SE/SR/Elite, HID iCLASS SEOS (Facility Code/PAC) ¹²⁾		
SUPPORTED TRANSPONDERS	All Standard Transponders, Cotag, G-Prox ⁸ , HID DuoProx II, HID ISO Prox II, HID Micro		
(OPTION P)	Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch		
	Windows XP, Vista, Embedded CE ¹⁰ , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ¹⁰ , iOS ¹⁰ ,		
OS SUPPORT	MAC OS X ¹⁰)		
PERIPHERAL INTERFACES	Female micro USB, flexible cable, use only with CAB-BS1 – CAB-BS7 shielded cables		
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), HF Air: up to 848 kbit/s, BT Air: up to 100 kbit/s		
CERTIFICATION NAME	TWN4 Slim		
CERTIFICATION(S)	ACMA, CE/RED, FCC, IC, REACH and RoHS-III compliant		
	Standalone reader without cable		
ORDER CODES	T4QC-FC3B7 TWN4 Slim		
	T4QC-FC3B7 TWN4 Sillin T4QC-FC3B7-P TWN4 Sillin, Option P		
	T4QC-FC3B7-PI TWN4 Slim, Option PI		

¹⁾UID only ²/r/w enhanced security features on request ³/ln preparation ⁴/r/w in direct chip command mode ⁵/UID only, read/write on request ⁶/UID + r/w public area ⁷/125 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 ⁸/Hash value only ⁹/Only emulation of 4100, 4102 ¹⁰/On request ¹¹/Without encryption ¹²/UID + PAC (Facility Code), r/w on request



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)	
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.		
Kits are a compilation of the TWN4 Slim reader, accessories and packaging configuration		
(Boxed or bulk packaging).		
After the configuratio	n of the Slim Kit, customers receive their own article number.	
	MECH-QHC1B: MECH-QHC2B: MECH-QRBF1: MECH-CCK3: CAB-BS1: CAB-BS2: CAB-BS3: CAB-BS3: CAB-BS4: CAB-BS5: CAB-BS5: CAB-BS6: CAB-BS7: Individual kits availab Kits are a compilation (Boxed or bulk packa	

DRAWING





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