TWN4 SLIM LEGIC

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

TWN4 Slim LEGIC – front view

TWN4 Slim LEGIC – rear view

TWN4 Slim LEGIC is ELATEC's smallest compact and flat RFID reader – it's smaller than an ID-1 card. TWN4 Slim LEGIC 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 LEGIC 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
+ Equipped with LEGIC front-end chip SM-6300
+ 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 v5.0, 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 option available on request
+ Customizable design inlay
+ 3D construction data (STEP) available on request

Elevator   EV Chargers   Access   Shop POS   Fitness Equipment   Ticket POS   PC Log-on   Document Management   Driver ID   Vending   Parking   Gaming   Locker Locks   Time Attendance   Industrial PC
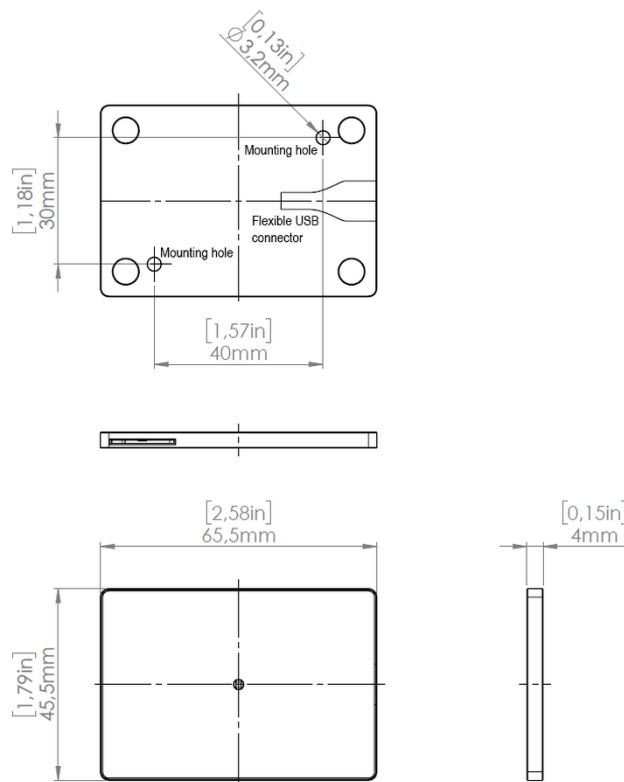
TECHNICAL DATA

FREQUENCY	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)
ANTENNA(S)	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 the safety norms listed in the respective declaration of conformity, 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 v5.0, software upgradable; standards as GAP, SM, L2CAP, ATT; predefined GATT structure; AES128 supported; LEGIC Connect on demand
MTBF	500,000 hours
WEIGHT	Approx. 18 g / 0.64 oz (without cable and holder)
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	ISO14443A: LEGIC Advant, MIFARE Classic EV1[1], MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1, MIFARE DESFire EV2[2], MIFARE DESFire Light[3], MIFARE Plus S, X, MIFARE Pro X[4], MIFARE Smart MX[4], MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1[1], NTAG2xx, SLE44R35[4], SLE66Rxx (my-d move)[4] ISO18092 ECMA-340: NFC Forum Tag 1-5[5], Sony FeliCa[6], NFC Active and passive communication mode ISO14443B: Calypso[4], CEPAS[4], HID iCLASS[7], Moneo[4], Pico Pass[7] ISO15693: EM4x33[4], EM4x35[4], HID iCLASS[7], HID iCLASS SE/SR[7], ICODE SLI, LEGIC Advant, M24LR16/64, SRF55Vxx (my-d vicinity)[4], Tag-it, PicoPass[7] LEGIC Prime: LEGIC Prime
SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ[8]	AWID, Cardax, CASI-RUSCO, Deister[9], EM4100, 4102, 4200[10], EM4050, 4150, 4450, 4550, EM4305[11], FDX-B[12], EM4105[12], UltraProx[12], HITAG 1[13], HITAG 2[13], HITAG S[13], ICT[3], IDTECK, Isonas, Keri, Miro, Nedap[9], PAC[3], Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX[12], TITAN (EM4050), UNIQUE, ZODIAC
SUPPORTED TRANSPONDERS (OPTION P)	All Standard Transponders, Cotag, G-Prox[9], HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch
OS SUPPORT	Windows Embedded CE[3], 7 (32-/64-bit), 8, 8.1, 10, Linux, Android[3], iOS[3], MAC OS X[3]
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
CERTIFICATION NAME	TWN4 Slim LEGIC
CERTIFICATION(S)	CE/RED, FCC, IC, REACH and RoHS-III compliant
ORDER CODE(S)	**Standalone reader without cable** T4QC-DC3B7 TWN4 Slim LEGIC T4QC-DC3B7-P TWN4 Slim LEGIC, Option P

[1] r/w enhanced security features on request [2] EV2/EV3 supported as part of the EV1 downward compatibility [3] On request [4] r/w in direct chip command mode [5] NFC Forum Tag 1 not supported [6] UID + r/w public area [7] UID only [8] 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 [9] Hash value only [10] Only emulation of 4100, 4102 [11] From FW V4.05 [12] 134.2 kHz only [13] Without encryption

ACCESSORIES	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)
CABLES	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
KITS	Individual kits available on request. Kits are a compilation of the TWN4 Slim LEGIC reader, accessories and packaging configuration (boxed or bulk packaging). After the configuration of the kit, customers receive their own article number.	

DRAWING

ELATEC GmbH
Zeppelinstr. 1
82178 Puchheim
Germany
P +49 89 552 9961 0
F +49 89 552 9961 129
E-Mail: info-rfid@elatec.com
Website: elatec.com

ELATEC Systems GmbH
Schwieberdinger Str. 44
71636 Ludwigsburg
Germany
P +49 7141 309736 0

E-Mail: info-rfid@elatec.com
Website: elatec.com

ELATEC Inc.
1995 SW Martin Hwy
Palm City • FL 34990
USA
P +1 772 210 2263
F +1 772 382 3749
E-Mail: americas-info@elatec.com
Website: elatec.com

ELATEC Technology (Shenzhen) LLC
918, Main Building, Tian An Cyber Times
Tower, No. 6, Tairan Fourth Road, Tian 'an
Community, Shatou Neighborhood
Futian District • Shenzhen • China
P/F +86 755 2394 6014
E-Mail: apac-info@elatec.com
Website: elatec.com