TWN4 Slim

Multi-frequency RFID reader (LF/HF) with NFC and BLE support

TWN4 Slim
(exemplary illustrations)

Even smaller than an ID-1 card – The RFID readers of the TWN4 Slim family are ELATEC most compact and flat readers. All devices are available with an NXP or LEGIC frontend and support NFC and Bluetooth Low Energy (BLE) technologies, which makes the readers an ideal solution for mobile data communication and authentication applications. In addition, they are equipped with a flexible micro USB cable and, optionally, with mounting holes that enable a quick and easy installation into any industrial application, especially MFP printers. The readers are available as part of a kit with several accessories (e.g. cables, mounting frame or snap-in covers for printers) or as a standalone unit working with a PC or any other device equipped with a USB interface.

Key features of the TWN4 Slim reader include an extremely compact form factor that enables a smooth integration into almost any host system, an optimized design for industrial and secure printing applications, and a powerful SDK for writing apps that are executed directly on the reader. Additionally, the reader can read more than 60 RFID technologies from low (LF) and high frequency (HF) bands, including NFC. This gives the option to select as many of the technologies required instead of being forced to select just a few ones.

Special features:

+ Possibility to read more than 60 RFID technologies
+ Two RFID frequencies (125 kHz/13.56 MHz), NFC and BLE within ELATEC most compact and flat reader
+ Optimized design with flexible micro USB cable and optional mounting holes
+ Powerful SDK for writing apps which are executed directly on the reader
+ Firmware update in the field possible
+ On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
+ Supports transparent data exchange with RFID media
+ CCID and PC/SC 2.01
+ Customizable inlay design

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

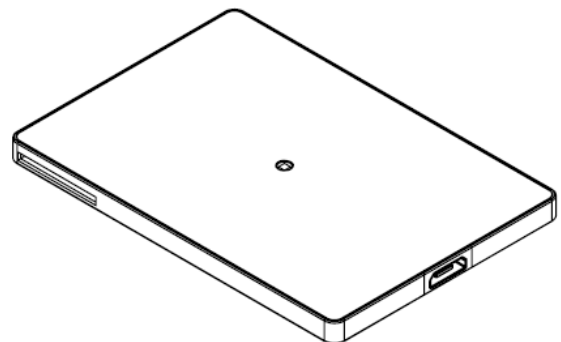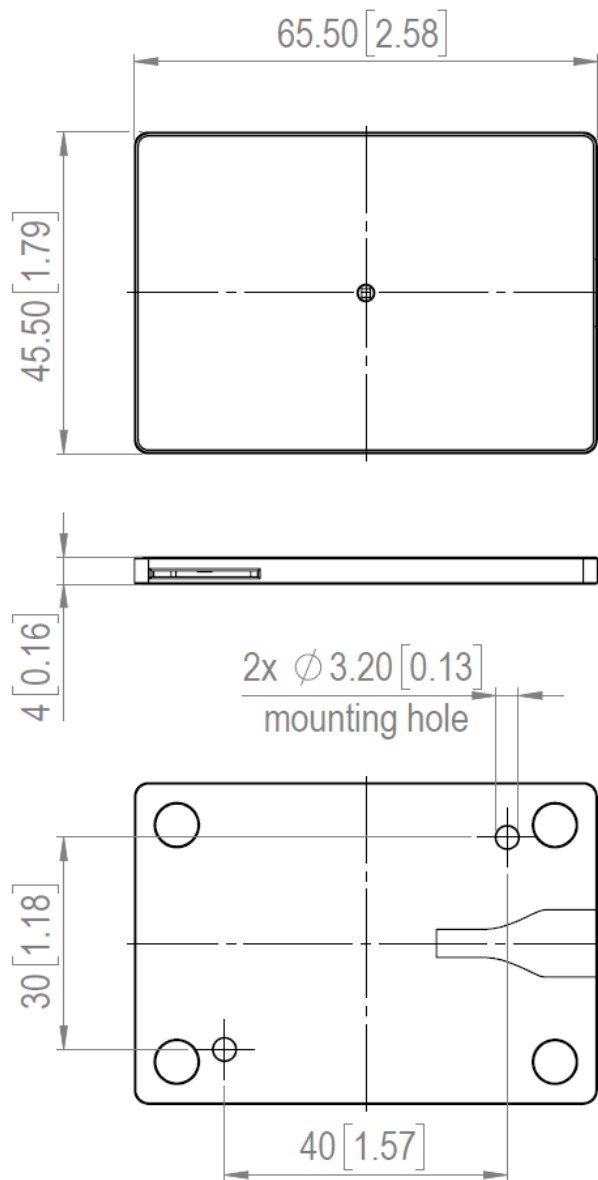|	
FREQUENCIES	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)
ANTENNAS	Integrated
HOUSING	Material: ABS+PC blend, UL94-V0. Two 3.20 mm (0.13 inch) mounting holes for OEM integration (requires special inlay) Color: black
DIMENSIONS (L X W X H)	Approx. 65.50 x 45.50 x 4.00 mm / 2.58 x 1.79 x 0.16 inch
POWER	Micro USB: 4.3 V – 5.5 V PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A
CURRENT CONSUMPTION	RF field on: 135 mA typically (preliminary) / Idle: 70 mA
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 BLE: up to several meters/feet
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01
BLUETOOTH LOW ENERGY	BLE version 4.2 (upgradable)
MTBF	500,000 hours
WEIGHT	Approx. 18 g / 0.64 oz (without cable and holder)
SUPPORTED OPTIONS AND TRANSPONDERS	Depending on the firmware version and installed options, ELATEC readers and modules can support a wide range of RFID technologies. Please refer to the relevant ELATEC transponder matrix (available at www.elatec-rfid.com/int/transponder-technology) for more information about the available options and RFID technologies supported by the product.
OS SUPPORT	Windows 7 (32-/64-bit) and higher versions, Linux, Android[1], iOS[1], MAC OS X[1]
PERIPHERAL INTERFACES	1 SAM slot for ID-000 card format, 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, BLE Air: up to 100 kbit/s
CERTIFICATION NAME	TWN4 Slim
CERTIFICATIONS	Non-exhaustive list[2]: CE/RED, FCC, IC, REACH and RoHS-III compliant
ORDER CODES	**Standalone reader, without cable** T4QC-FC3B7 Standard reader T4QC-FC3B7-P Reader with P option T4QC-FC3B7-PI Reader with PI options **TWN4 Slim kits** Individual kits are available on request. Kits are a compilation of the TWN4 Slim reader, accessories and packaging configuration (boxed or bulk packaging). After the configuration of a TWN4 Slim kit, customers receive their own article number.

[1]On request

[2]The product has been certified for use in many countries and regions. Contact your Sales representative for detailed information about all certifications and approvals granted to the product.

ACCESSORIES

CABLES	ELATEC RFID readers and modules can be delivered with additional cables. Refer to the data sheet *Cables for ELATEC devices* for detailed information.
ADDITIONAL COMPONENTS	HFQC-B — TWN4 Slim mounting frame, black MECH-CCK3 — Cable clip kit, adhesive, black (3pcs) MECH-QHC1B — TWN4 Slim HIP1 cover MECH-QHC2B — TWN4 Slim HIP2 cover MECH-QRBF1 — TWN4 Slim rubber feet, 4pcs/set

65.50 [2.58]

45.50 [1.79]

4 [0.16]

2x Ø 3.20 [0.13]
mounting hole

30 [1.18]

40 [1.57]

All measures in mm [inch]