ELATEC
RFID Systems

# TWN4 Slim JP

## Single-frequency HF RFID reader with NFC and BLE support



TWN4 Slim JP
(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.

TWN4 Slim JP is a special version of the TWN4 Slim reader that has been designed exclusively for the Japanese market and supports a huge range of HF technologies (13.56 MHz). Key features of the 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.

Special features:

+ Possibility to read many RFID technologies from the 13.56 MHz frequency band
+ Integrated HF antenna, 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
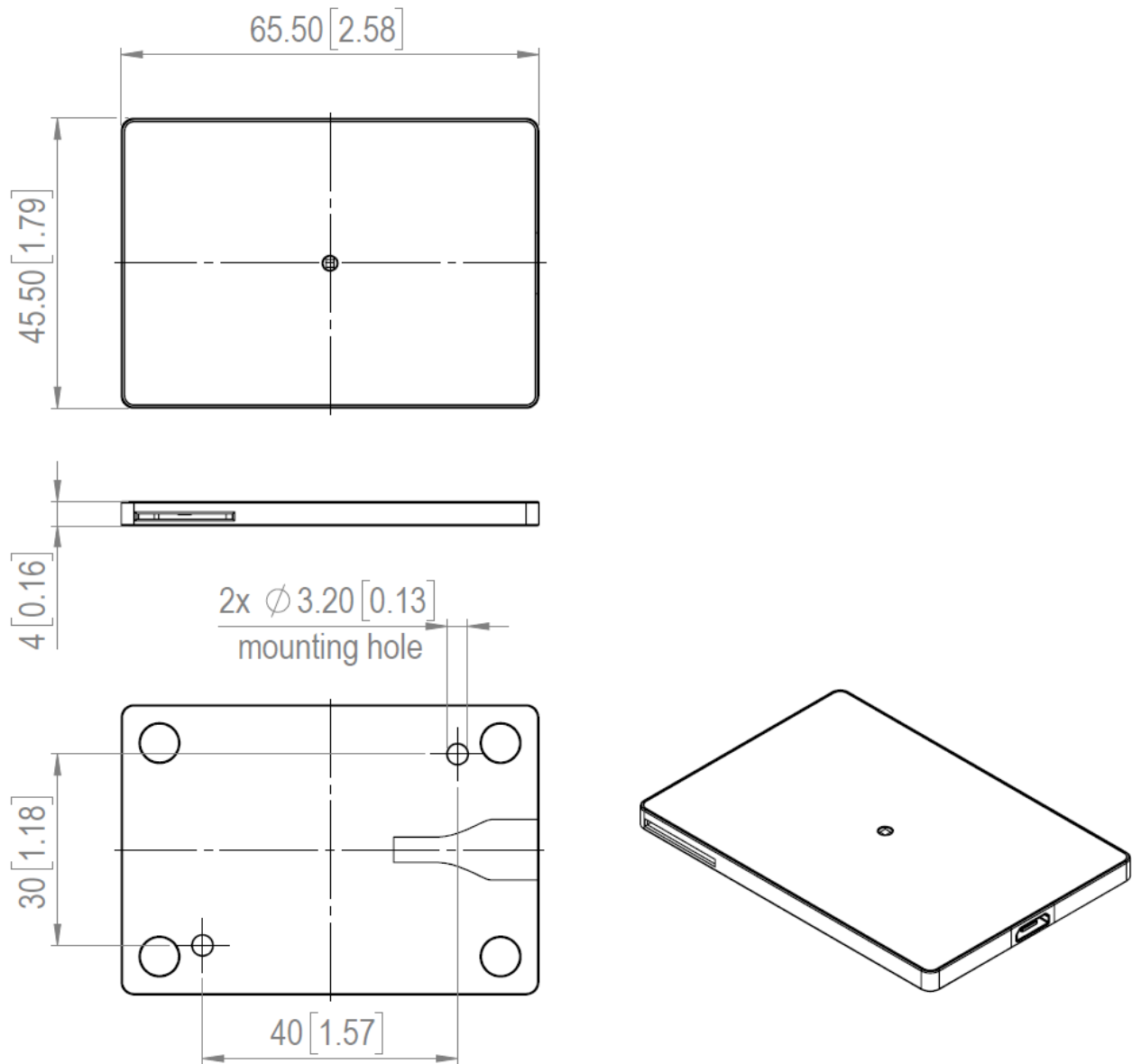
| | |
|---|---|
| FREQUENCIES | 13.56 MHz (HF) / 2.4 GHz (BLE) |
| ANTENNAS | Integrated |
| HOUSING | Material: ABS+PC blend, UL94-V0. Two 3.20 mm (0.13 inch) mounting holes for OEM integration (requires special inlay)<br>Color: black |
| DIMENSIONS (L X W X H) | Approx. 65.50 x 45.50 x 4.00 mm / 2.58 x 1.79 x 0.16 inch |
| POWER | Micro USB: 4.3 V – 5.5 V<br>ES1/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)<br>Storage: -30 °C up to +70 °C (-22 °F up to +158 °F) |
| RELATIVE HUMIDITY | 5% to 95% non-condensing |
| READ/WRITE DISTANCE | HF: up to 80 mm / 3.15 inch, depending on environment and transponder<br>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 JP |
| CERTIFICATION | MIC |
| ORDER CODES | **Standalone reader, without cable**<br>T4QC-FC3B3-JP     Standard reader<br>T4QC-FC3B3-IJP     Reader with I option<br><br>**TWN4 Slim JP kits**<br>Individual kits are available on request. Kits are a compilation of the TWN4 Slim JP reader, accessories and packaging configuration (boxed or bulk packaging). After the configuration of a TWN4 Slim JP kit, customers receive their own article number. |

[1]On request

## 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<br>MECH-CCK3     Cable clip kit, adhesive, black (3pcs)<br>MECH-QHC1B   TWN4 Slim HIP1 cover<br>MECH-QHC2B   TWN4 Slim HIP2 cover<br>MECH-QRBF1    TWN4 Slim rubber feet, 4pcs/set |

## TECHNICAL DRAWINGS

65.50 [2.58]

45.50 [1.79]

4 [0.16]

2x ⌀ 3.20 [0.13]
mounting hole

30 [1.18]

40 [1.57]

All measures in mm [inch]

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