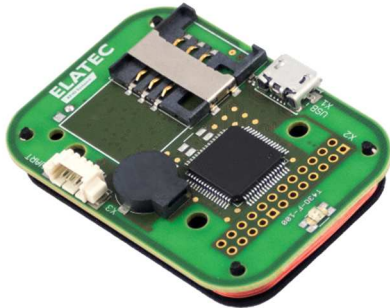


TWN4 MULTITECH 3

RFID READER/WRITER FOR LF, HF, NFC



TWN4 MultiTech 3 PCB top view



TWN4 MultiTech 3 PCB bottom view

The TWN4 MultiTech 3 integrates RFID (125 kHz and 13.56 MHz) and NFC capabilities into a compact but powerful reader. Its reduced size combined with optimized read/write performance makes it the perfect reader for all applications where small size and full performance matters, e.g. print solutions, driver identification, POS integration and many more. Furthermore, the TWN4 MultiTech 3 provides access to most common host interfaces such as USB, serial (TTL) or I²C which are readily accessible through an on-board connector.

The TWN4 MultiTech 3 allows users to read and write almost all common worldwide 125 kHz and 13.56 MHz tags and/or labels. It supports all major transponders from various suppliers like ATMEL, EM, ST, NXP, TI, HID etc. and ISO standards like ISO14443A/B (T=CL), ISO15693, ISO18092 / ECMA-340 (NFC).

Special features:

- + Powerful SDK for writing apps which are executed directly on the reader
- + Firmware update in the field possible
- + Onboard 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + Direct chip-commands support
- + One onboard SAM socket (Secure Access Module)
- + CCID and PC/SC 2.01
- + 3 GPIOs
- + Supports quick (re)configuration over network and over wireless interface with TWN4 CONFIG Card
- + TWN4 Upgrade Card for P and PI options available on request
- + 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)						
ANTENNA	Integrated						
DIMENSIONS (L X W X H)	OEM Board (compact reader): 50 mm x 35 mm x 7 mm, maximum diameter < 55 mm.						
POWER SUPPLY	4.3 V - 5.5 V via USB; via generic interface (X2) 3.3 V +/- 5%						
CURRENT CONSUMPTION	RF field on: 120 mA typically / Sleep: 500 µA typ. / Cyclic Operation: TBD						
TEMPERATURE RANGE	Operating: -25 °C up to +80 °C (-13 °F up to +176 °F) Storage: -45 °C up to +85 °C (-49 °F up to +185 °F)						
RELATIVE HUMIDITY	5% to 95% non-condensing						
READ- / WRITE DISTANCE	LF and HF: Up to 51 mm / 2 inch, depending on environment and transponder						
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01						
MTBF	500,000 hours						
WEIGHT	Approx. 9 g						
COMPATIBLE PIN HEADER	PTT-112-01-L-D or TMM-112-03-F-D by Samtec						
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	<p><u>ISO14443A:</u> LEGIC Advant¹⁾, MIFARE Classic EV1²⁾, MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1, MIFARE DESFire EV2²⁾, MIFARE DESFire Light³⁾, MIFARE Plus S, X, MIFARE Pro X⁴⁾, MIFARE Smart MX⁴⁾, MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1, NTAG2xx, PayPass⁴⁾, SLE44R35, SLE66Rxx (my-d move)⁴⁾, Topaz</p> <p><u>ISO14443B:</u> Calypso⁴⁾, Calypso Innovatron protocol⁴⁾, CEPAS⁴⁾, HID iCLASS¹⁾, Moneo⁴⁾, Pico Pass⁵⁾, SRI4K, SRIX4K, SRI512, SRT512</p> <p><u>ISO18092 ECMA-340:</u> NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa⁶⁾, NFC Active and passive communication mode</p> <p><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⁾</p>						
SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ KHZ ⁷⁾	AWID, Cardax, CASI-RUSCO, Deister ⁸⁾ , EM4100, 4102, 4200 ⁹⁾ , EM4050, 4150, 4450, 4550, EM4305 ¹⁰⁾ , EM4105, HITAG 1 ¹¹⁾ , HITAG 2 ¹¹⁾ , HITAG S ¹¹⁾ , ICT ¹⁰⁾ , IDTECK, Isonas ¹⁰⁾ , Keri, Miro, Nedap ⁸⁾ , Pyramid, Q5, T5557, T5567, T5577, TITAN (EM4050), UNIQUE						
SUPPORTED TRANSPONDERS (OPTION P)	All Standard Transponders, Cotag, G-Prox ⁸⁾ , HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch						
SUPPORTED TRANSPONDERS (OPTION PI)	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⁾						
OS SUPPORT	Windows XP, Vista, Embedded CE ¹⁰⁾ , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ¹⁰⁾ , iOS ¹⁰⁾ , MAC OS X ¹⁰⁾						
PERIPHERAL INTERFACES	USB, RS232, TTL serial (logic level 3.3 V, CMOS, 5 V tolerant), I ² C, SPI, 3 GPIOs, CAN ¹⁰⁾ , Clock/Data, Wiegand						
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), RS-232: up to 115.200 baud, HF Air: up to 848 kbit/s						
CERTIFICATION NAME	TWN4 MultiTech 3						
CERTIFICATION(S)	CE/RED, FCC Single Modular Approval, IC, REACH and RoHS-III compliant and many more						
ORDER CODE(S)	<table> <tr> <td>T430-F6C0</td> <td>OEM Board</td> </tr> <tr> <td>T430-F6C0-P</td> <td>OEM Board Option P</td> </tr> <tr> <td>T430-F6C0-PI</td> <td>OEM Board Option PI</td> </tr> </table>	T430-F6C0	OEM Board	T430-F6C0-P	OEM Board Option P	T430-F6C0-PI	OEM Board Option PI
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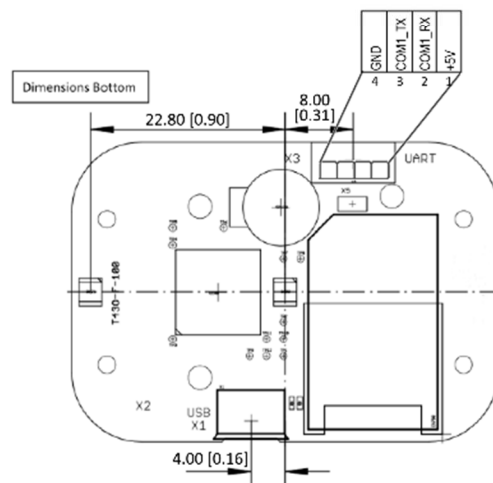
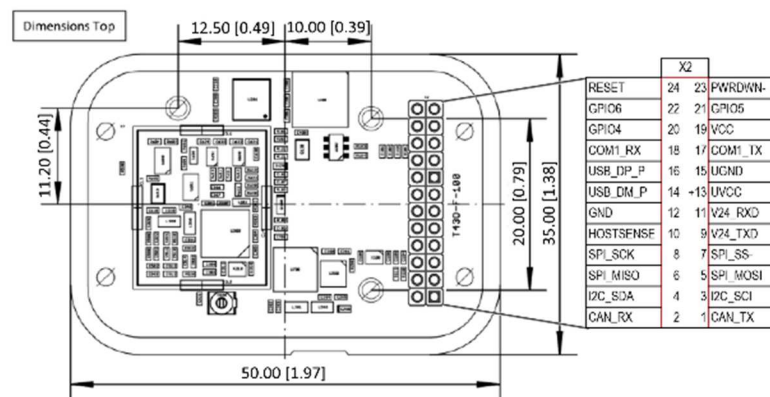
¹⁾UID only ²⁾r/w enhanced security features on request ³⁾In preparation ⁴⁾r/w in direct chip command mode ⁵⁾UID only, read/write on request ⁶⁾UID + r/w public area
⁷⁾125 kHz technology requires a Russian local test and import license from the ministry of Trade and Industry (MINPROMTORC). This license 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⁾r/w on request

ACCESSORIES

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

DRAWING / CONNECTOR ASSIGNMENT



All dimensions in mm [inch]

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