

TWN4 MULTITECH 3 LEGIC M BLE

TWN4 MultiTech 3 LEGIC M

PROGRAMMABLE RFID READER/WRITER FOR LF, HF, NFC & BLE





*Product images may show product variants or additional components that are not available.

TWN4 MultiTech 3 LEGIC M BLE integrates RFID (125 kHz and 13.56 MHz), NFC and Bluetooth Low Energy 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, healthcare applications, driver identification, POS integration and much more. Furthermore, TWN4 MultiTech 3 LEGIC M BLE provides access to most common host interfaces such as USB, serial (TTL) or I2C which are readily accessible through an on-board connector.

TWN4 MultiTech 3 LEGIC M BLE 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 LEGIC Advant, LEGIC Prime, ISO 14443A/B (T=CL), ISO 15693, ISO 18092 / ECMA-340 (NFC).

Special features:

- 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
- Direct chip-commands support
- One on-board 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 option available on request





























































TECHNICAL DATA

FREQUENCY	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)	
	· · · · · · · · · · · · · · · · · · ·	
ANTENNA(S)	Integrated 50	
DIMENSIONS (L X W X H)	50 mm x 35 mm x 7 mm, maximum diameter < 55 mm	
	1.97 inch x 1.38 inch x 0.28 inch, maximum diameter < 2.17 inch	
	4.3 V - 5.5 V via micro USB; via generic interface (X2) 3.3 V +/- 5%	
POWER	Limited power source according to the safety norms listed in the respective declaration of	
	conformity, short-circuit current < 8 A	
CURRENT CONSUMPTION	RF field on: 200 mA typically + 16 mA (BT) / Sleep: 500 µA typ.	
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 100 mm / 4 inch, depending on environment and transponder / BT: up to	
	several meters/feet (configurable, up to +8 dBm power)	
OPERATING MODES (USB)		
• • •	Bluetooth V4.1, software upgradable to V4.2; API; standards as GAP, SM, L2CAP, ATT;	
BLUETOOTH LOW ENERGY	predefined GATT structure; up to 8 connections; AES128 supported	
MTBF	500,000 hours	
WEIGHT	Approx. 9 g (0.32 oz)	
COMPATIBLE PIN HEADER	PTT-112-01-L-D or TMM-112-03-F-D by Samtec	
COMI ATIBLE I IN TILABLIX	ISO14443A:	
	LEGIC Advant, MIFARE Classic EV11), MIFARE Classic, MIFARE Mini, MIFARE	
	DESFire EV1, MIFARE DESFire EV22), MIFARE DESFire Light ³⁾ , MIFARE Plus S, X,	
	MIFARE Pro X ⁴), MIFARE Smart MX ⁴), MIFARE Ultralight, MIFARE Ultralight C,	
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	MIFARE Ultralight EV11), NTAG2xx, SLE44R354), SLE66Rxx (my-d move)4)	
	<u>ISO18092 ECMA-340</u> :	
	NFC Forum Tag 1-55, Sony FeliCa6, NFC Active and passive communication mode	
	<u>ISO14443B</u> :	
	Calypso ⁴), CEPAS ⁴), HID iCLASS ⁷), Moneo ⁴), Pico Pass ⁷)	
	<u>ISO15693</u> :	
	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	
	AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450,	
SUPPORTED TRANSPONDERS	4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³),	
(STANDARD) 125 KHZ ⁸⁾	ICT ³), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ³), Pyramid, Q5, T5557, T5567, T5577,	
(STANDARD) 125 KHZ ⁰		
OLIDDODTED TRANSPONDEDO	TIRIS/HDX ¹²), TITAN (EM4050), UNIQUE, ZODIAC	
SUPPORTED TRANSPONDERS	All Standard Transponders, Cotag, G-Prox ⁹ , HID DuoProx II, HID ISO Prox II, HID Micro	
(OPTION P)	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	USB, RS-232, TTL serial (logic level 3.3 V, CMOS, 5 V tolerant), I ² C, SPI, 3 GPIOs,	
	Clock/Data, Wiegand, Bluetooth Low Energy (BLE)	
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), RS-232: up to 115,200 baud, HF Air: up to 848 kbit/s, BT	
	Air: up to 100 kbit/s	
CERTIFICATION NAME	TWN4 MultiTech 3 LEGIC M	
CERTIFICATION(S)	CE/RED, FCC, IC, REACH and RoHS-III compliant, and many more	
` ,	T430-B7C0 OEM Board	
ORDER CODE(S)	T430-B7C0-P OEM Board Option P	
	1430-D700-P OCIVI DUALU OPLIUIT 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

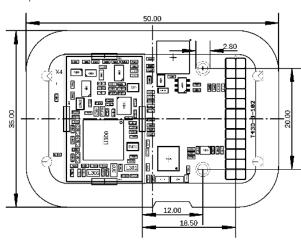


ACCESSORIES

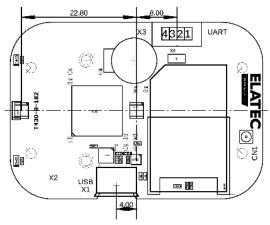
	CAB-BS1	Cable, Slim CC, Micro USB/Mini USB male bent, 10cm / 3.93 inch
	CAB-BS2	Cable, Slim CC, Micro USB/Mini USB female, 10cm / 3.93 inch
	CAB-BS3	Cable, Slim CC, Micro USB/USB A male, 12cm / 4.72 inch
CABLES	CAB-BS4	Cable, Slim CC, Micro USB/USB A male, 45cm / 17.7 inch
	CAB-BS5	Cable, Slim CC, Micro 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

Dimensions Top



Dimensions Bottom



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T43O-B7C0-P TWN4 MULTITECH NANO LEGIC 63M C0 T4PK-B02TR6-P T4PK-B02TR7-P TWN4 MULTITECH SMARTCARD
LEGIC 42 USB T4WK-B01EU6-P DEVKIT TWN4 MULTITECH NANO LEGIC ART10499 HHRM-NB2B00 T4W2-F01C7 T4W2F01C7-PI T4W2-F02B6 T4W2-F02B6-P TWN4 PALON ONE LEGIC T43O-B7C0 T4DT-FB3WEL-PI T4NM-FDB0 T4PK-B01TR7
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