

TWN4 MULTITECH 2 LEGIC

(SM-4200/4500 FRONTEND)

MULTI-FREQUENCY RFID READER FOR LF, HF, NFC AND BLE



TWN4 MultiTech 2 LEGIC (inlay customizable)

The contactless RFID readers and modules of the ELATEC TWN4 MultiTech 2 LEGIC family are a direct enhancement of the TWN4 MultiTech LEGIC readers with the same form factors (PCB modules and desktop readers with housing). During the development of the TWN4 MultiTech 2 LEGIC family, special emphasis has been placed on optimizing the HF performance (13.56 MHz). Compared to the predecessor TWN4 MultiTech LEGIC, the read range could be increased by more than 50% for LEGIC transponders and even doubled for some HF transponders.

TWN4 MultiTech 2 LEGIC key features include a powerful SDK for writing apps that are executed directly on the reader, the possibility to upgrade the firmware in the field, a direct chip-commands support, and a powerful BLE module. Additionally, the reader can simultaneously 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, like most other readers.

Special features:

- Optimized HF and BLE read performance
- Powerful SDK for writing apps which are executed directly on the reader
- Support of segment initialization function (LEGIC SM-4500 frontend only)
- Supports two RFID frequencies: 125kHz and 13.56 MHz
- Supports quick (re)configuration over network and over wireless interface with TWN4 CONFIG Card
- Plug & Play device
- Firmware update in the field possible
- Direct chip-commands support
- CCID and PC/SC 2.01







































TECHNICAL DATA

FREQUENCY	125 PHz (LE) / 13 56 MHz (HE) / 2 4 CHz (DLE)		
	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)		
ANTENNA(S) HOUSING	Integrated		
	Material: ABS UL94-V0, color: black or white		
DIMENSIONS (L X W X H)	88 mm x 56 mm x 18 mm / 3.5 inch x 2.2 inch x 0.7 inch		
	USB: 4.3 V - 5.5 V		
POWER	RS-232: requires 5 V external power supply		
	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: 140 mA typically		
TEMPERATURE RANGE	Operating: -25 °C up to +70 °C (-13 °F up to +158 °F)		
	Storage: -40 °C up to +75 °C (-40 °F up to +167 °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		
READ / WRITE DISTANCE	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 5.x		
MTBF	500,000 hours		
WEIGHT	Approx. 120 g / 4.23 oz (with cable)		
	ISO 14443A:		
	HID iCLASS DESFire ¹⁾ , HID iCLASS MIFARE Classic ¹⁾ , HID iCLASS SEOS ¹⁾ ,		
	LEGIC Advant, NTAG2xx, MIFARE Classic, MIFARE Classic EV12), MIFARE		
	DESFire EV1, MIFARE DESFire EV2/EV33, MIFARE DESFire Light4, MIFARE Mini,		
	MIFARE Plus S/X, MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE		
	Ultralight EV12), SLE44R355), SLE66Rxx (my-d move)5)		
	ISO 14443B:		
	Calypso ⁵⁾ , CEPAS ⁵⁾ , HID iCLASS ¹⁾ , Pico Pass ¹⁾		
SUPPORTED TRANSPONDERS	ISO 15693:		
(STANDARD) 13.56 MHZ	EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR/Elite ¹), ICODE SLI, LEGIC		
	Advant, M24LR16/64, PicoPass ¹⁾ , SRF55Vxx (my-d vicinity) ⁵⁾ , Tag-it		
	ISO 18092 / ECMA-340:		
	NFC Forum Tag 1-56), Sony FeliCa ⁷⁾		
	LEGIC Prime:		
	LEGIC Prime		
	LEAF Identity:		
	LEAF Identity.		
CURRORTER TRANSPONDERS	AWID, Cardax ¹⁰⁾ , CASI-RUSCO, Deister ¹⁰⁾ , EM4050, EM4100, EM4102, EM4150, EM4200 ¹¹⁾ , EM4305, EM4450, EM4550, HITAG 1 ¹²⁾ , HITAG 2 ¹²⁾ , HITAG S ¹²⁾ , ICT ⁴⁾ ,		
SUPPORTED TRANSPONDERS			
(STANDARD) 125 KHZ ⁹⁾	IDTECK, ISONAS, Keri, Miro, Nedap ¹⁰ , Pyramid, Q5, T5557, T5567, T5577, TITAN		
	(EM4050), UNIQUE, ZODIAC		
SUPPORTED TRANSPONDERS	All standard transponders, G-Prox ¹⁰ , HID 1326 Prox II, HID 1336 DuoProx II, HID 1346		
(P OPTION)	ProxKey III, HID 1386 ISO Prox II, HID 1391 Micro Prox, HID Prox, Indala, ioProx,		
,	Nexwatch Third Clark to the first transfer of the control of the c		
SUPPORTED TRANSPONDERS	Requires TWN4 SIO Card, all standard transponders, all P option transponders, Calypso		
	Innovatron protocol ⁵⁾ , CTS, HID iCLASS, HID iCLASS DESFire/Elite/MIFARE		
(PI OPTION)	Classic/SE/SEOS/SR, MB89R118/119, NFC Forum Tag 1-5, Pico Pass ¹³⁾ , SRI4K, SRI512,		
	SRIX4K, SRT512, Topaz		
OO OUDDODT	·		
OS SUPPORT PERIPHERAL INTERFACES	Windows 7 (32-/64-bit) and higher versions, Linux, Android ⁴ , iOS ⁴ , MAC OS X ⁴) USB, RS-232		



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 2 LEGIC
CERTIFICATION(S)	CE/RED, FCC, IC, REACH and RoHS-III compliant, and many more ¹⁴⁾

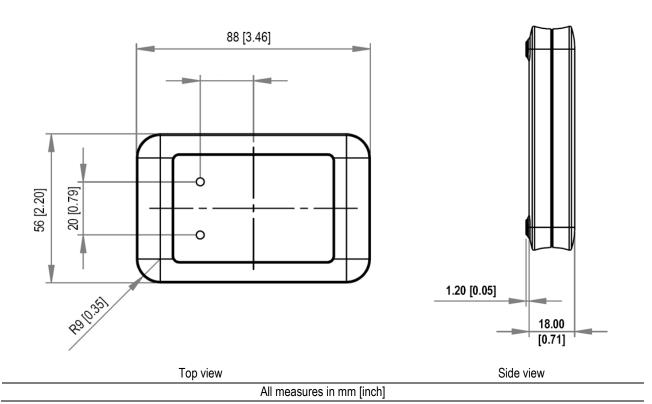
¹¹UID only ²¹r/w enhanced security features on request ³¹supported as part of the EV1 downward compatibility ⁴¹On request ⁵¹r/w in direct chip command mode 6¹NFC Forum Tag 1 not supported ¹²¹UID + r/w public area ³¹AV2 only, requires one free SAM slot for MIFARE SAM AV2 card ¹¹125 kHz technology requires 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 ¹¹⁰Hash value only ¹¹¹Only emulation of 4100, 4102 ¹²²Without encryption ¹³³UID only, read/write on request ¹⁴¹More information on request

T4BT-BB2BEL7-XB	USB Black
T4BT-BB2WEL7-XB	USB White
T4BT-BR2BEL7-XB	RS-232 Black
T4BT-BR2WEL7-XB	RS-232 White
T4BT-BB2BEL7-XBP	USB Black, P option
T4BT-BB2WEL7-XBP	USB White, P option
T4BT-BR2BEL7-XBP	RS-232 Black, P option
T4BT-BR2WEL7-XBP	RS-232 White, P option
T4BT-BB2BEL7-XBPI	USB Black, PI option
T4BT-BB2WEL7-XBPI	USB White, PI option
T4BT-BR2BEL7-XBPI	RS-232 Black, PI option
T4BT-BR2WEL7-XBPI	RS-232 White, PI option
Readers with LEGIC SM-4500	
T4BT-BB2BEL7-5XB	USB Black
T4BT-BB2WEL7-5XB	USB White
T4BT-BR2BEL7-5XB	RS-232 Black
T4BT-BR2WEL7-5XB	RS-232 White
T4BT-BB2BEL7-5XBP	USB Black, P option
T4BT-BB2WEL7-5XBP	USB White, P option
T4BT-BR2BEL7-5XBP	RS-232 Black, P option
T4BT-BR2WEL7-5XBP	RS-232 White, P option
T4BT-BB2BEL7-5XBPI	USB Black, PI option
T4BT-BB2WEL7-5XBPI	USB White, PI option
T4BT-BR2BEL7-5XBPI	RS-232 Black, PI option
T4BT-BR2WEL7-5XBPI	RS-232 White, PI option
	T4BT-BR2BEL7-XB T4BT-BR2WEL7-XB T4BT-BB2BEL7-XBP T4BT-BB2WEL7-XBP T4BT-BR2BEL7-XBP T4BT-BR2WEL7-XBP T4BT-BR2WEL7-XBP T4BT-BB2BEL7-XBPI T4BT-BB2WEL7-XBPI T4BT-BR2BEL7-XBPI T4BT-BR2WEL7-XBPI T4BT-BR2WEL7-XBPI T4BT-BR2WEL7-XBPI T4BT-BR2WEL7-SXB T4BT-BB2BEL7-5XB T4BT-BR2BEL7-5XB T4BT-BR2WEL7-5XB T4BT-BR2WEL7-5XB T4BT-BR2BEL7-5XBP T4BT-BR2BEL7-5XBP T4BT-BR2BEL7-5XBP T4BT-BR2BEL7-5XBP T4BT-BR2BEL7-5XBPI T4BT-BB2BEL7-5XBPI T4BT-BB2BEL7-5XBPI T4BT-BB2BEL7-5XBPI T4BT-BB2BEL7-5XBPI T4BT-BB2BEL7-5XBPI T4BT-BB2BEL7-5XBPI T4BT-BB2BEL7-5XBPI T4BT-BB2BEL7-5XBPI

ACCESSORIES

HOLDER(S)	HKSI-B	Snap-In Holder black
	HKSI-W	Snap-In Holder white
	HKBR-B	Bracket Holder black
	HKBR-W	Bracket Holder white
POWER SUPPLY	PWA-AUS4	Power Supply (AUS)
	PWA-EU4	Power Supply (EU)
	PWA-US4	Power Supply (US)
	PWA-UK4	Power Supply (UK)





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