TWN4 MULTITECH 2 HF

13.56 MHZ CONTACTLESS READER/WRITER WITH NFC SUPPORT



TWN4 MultiTech 2 HF PCB top view



Desktop version (inlay customizable)

Elatec's TWN4 MultiTech 2 HF reader/writer allows users to read and write to almost any 13.56 MHz tags and/or labels. It supports all major transponder technologies from various suppliers like ATMEL, EM, ST, NXP, TI etc. and ISO standards like ISO14443A/B (T=CL), ISO15693, ISO18092 / ECMA-340 (NFC). The latter is supported by mobile phones with Android version 4.3 or greater.

The reader provides a powerful API which enables system integrators and solution providers to develop complex applications which can be run directly on the reader.

Furthermore these applications as well as custom configurations can be applied wireless to the reader without plugging it out from the current infrastructure. This can be achieved by using a TWN4 Configuration Card and is a time saving feature in large projects.

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
- 4 GPIOs
- 3D construction data (STEP) available on request



































TECHNICAL DATA

TECHNICAE DATA	40 74 444 (147)		
FREQUENCY	13.56 MHz (HF)		
ANTENNA	Integrated		
HOUSING	Material: ABS UL94-V0, color: black or white		
DIMENSIONS (LV M V LI)	Desktop Reader: 88 mm x 56 mm x 18 mm / 3.5 inch x 2.2 inch x 0.7 inch		
DIMENSIONS (L X W X H)	OEM Board: 76 mm x 49 mm x 9 mm / 3.0 inch x 1.9 inch x 0.35 inch		
DOWED CLIDDLY	4.3 V - 5.5 V via USB or RS-232; RS-232 requires 5 V external power supply; via		
POWER SUPPLY	connector CNB 3.3 V +/- 5%		
CURRENT CONSUMPTION	RF field on: 120 mA typically		
TEMPERATURE RANGE	Desktop, Operating: -25 °C up to +70 °C (-13 °F up to +158 °F)		
	Desktop, Storage: -45 °C up to +75 °C (-49 °F up to +167 °F)		
	PCB, Operating: -25 °C up to +80 °C (-13 °F up to +176 °F)		
	PCB, Storage: -45 °C up to +85 °C (-49 °F up to +185 °F)		
RELATIVE HUMIDITY	5% to 95% non-condensing		
READ- / WRITE DISTANCE	Up to 100 mm / 4 inch, depending on environment and transponder		
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), RS-232: up to 115.200 baud; Air: up to 848 kbit/s		
MODES OF OPERATION	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01		
MTBF	500,000 hours		
WILDI	PCB approx. 10 q (no cable)		
WEIGHT	Desktop approx. 115 g (with cable)		
	ISO14443A:		
SUPPORTED TRANSPONDERS (STANDARD)			
	LEGIC Advant ¹), MIFARE Classic 1k & 4k EV1 ²), MIFARE Classic, MIFARE Mini, MIFARE		
	DESFire EV1, MIFARE DESFire EV2 ²), MIFARE Plus S, X, MIFARE Pro X ³), MIFARE		
	Smart MX ³), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1, NTAG2xx,		
	PayPass ³⁾ , SLE44R35, SLE66Rxx (my-d move) ³⁾ , Topaz		
	ISO14443B: Calvince 3: Calvince Innovestron protected 3: CEDAS 3: LIID (CLASS 1) Manae 3: Dice Descri)		
	Calypso ³), Calypso Innovatron protocol ³), CEPAS ³), HID iCLASS ¹), Moneo ³), Pico Pass ⁴),		
	SRI4K, SRIX4K, SRI512, SRT512		
	ISO18092 ECMA-340:		
	NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁵⁾ , NFC Active and passive		
	communication mode		
	ISO15693:		
	EM4x33³), EM4x35³), HID iCLASS¹), HID iCLASS SE/SR¹), ICODE SLI, LEGIC Advant¹),		
	M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ³⁾ , Tag-it, PicoPass ⁴⁾		
SUPPORTED TRANSPONDERS	Requires external TWN4 SIO Card, All Standard Transponder, HID iCLASS, HID iCLASS		
(VERSION I)	SE/SR/SEOS (CSN and Facility Code/PAC)6), HID iCLASS Elite & SE Elite		
PERIPHERAL INTERFACES	USB, RS232, TTL serial (logic level 3.3 V, CMOS, 5 V tolerant), I ² C, 4 GPIOs, Clock/Data,		
	Wiegand, 1-Wire ⁷⁾		
OS SUPPORT	Windows XP, Vista, Embedded CE ⁷⁾ , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ⁷⁾ , iOS ⁷⁾ ,		
	MAC OS X ⁷⁾		
CERTIFICATIONS	RoHS-II compliant, CE, FCC		
ORDER CODE(S)	T4BO-F2 OEM Board		
	T4BT-FB2BEL2 USB Black		
	T4BT-FB2WEL2 USB White		
	T4BT-FR2BEL2 RS232 Black		
	T4BT-FR2WEL2 RS232 White		
	T4BO-F2-I OEM Board Version I		
	T4BO-FB2BEL2-I Version I USB Black		
	T4BT-FB2WEL2-I Version I USB White		

T4BO-FR2BEL2-I	Version I RS232 Black
T4BT-FR2WEL2-I	Version I RS232 White

¹⁾UID only 2)r/w enhanced security features on request 3)r/w in direct chip command mode 4)UID only, read/write on request 5)UID + r/w public area 6)UID + PAC (CSN & Facility Code), r/w on request 7)On request

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