

# TWN4 MULTITECH 2 HF PCSC

## 13.56 MHZ PC/SC RFID READER/WRITER WITH NFC SUPPORT



TWN4 MultiTech 2 HF PCSC  
(inlay customizable)

ELATEC's TWN4 MultiTech 2 HF PCSC 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, Fujitsu, EM, ST, NXP, TI etc. and ISO standards like ISO14443A/B (T=CL), ISO15693. Thanks to its PC/SC interface and CCID protocol, it is the perfect reader for Single Sign-on applications.

### Special features:

- + Firmware update in the field possible
- + On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + CCID and PC/SC 2.01
- + 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	13.56 MHz (HF)
ANTENNA	Integrated
HOUSING	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
POWER SUPPLY	4.3 V - 5.5 V via USB Limited power source according to IEC 60950-1 or PS2 classified IEC 62368-1, short-circuit current < 8 A
CURRENT CONSUMPTION	RF field on: 200 mA typically
TEMPERATURE RANGE	Operating: -25 °C up to +70 °C (-13 °F up to +158 °F) Storage: -45 °C up to +75 °C (-49 °F up to +167 °F)
RELATIVE HUMIDITY	5% to 95% non-condensing
READ- / WRITE DISTANCE	Up to 100 mm / 4 inch, depending on environment and transponder
OPERATING MODES (USB)	CCID / PC/SC 2.01
MTBF	500,000 hours
WEIGHT	Approx. 115 g / 4.06 oz (with cable)
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	<u>ISO14443A:</u> LEGIC Advant <sup>1)</sup> , MIFARE Classic EV1 <sup>2)</sup> , MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1, MIFARE DESFire EV2 <sup>3)</sup> , MIFARE DESFire Light <sup>3)</sup> , MIFARE Plus S, X, MIFARE Pro X <sup>4)</sup> , MIFARE Smart MX <sup>4)</sup> , MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 <sup>2)</sup> , NTAG2xx, PayPass <sup>4)</sup> , SLE44R35 <sup>4)</sup> , SLE66Rxx (my-d move) <sup>4)</sup> , Topaz <u>ISO14443B:</u> Calypso <sup>4)</sup> , Calypso Innovatron protocol <sup>4)</sup> , CEPAS <sup>4)</sup> , HID iCLASS <sup>1)</sup> , Moneo <sup>4)</sup> , Pico Pass <sup>5)</sup> , SRI4K, SRIX4K, SRI512, SRT512 <u>ISO18092 ECMA-340:</u> NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa <sup>6)</sup> , NFC Active and passive communication mode <u>ISO15693:</u> EM4x33 <sup>4)</sup> , EM4x35 <sup>4)</sup> , HID iCLASS <sup>1)</sup> , HID iCLASS SE/SR <sup>1)</sup> , ICODE SLI, LEGIC Advant <sup>1)</sup> , M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) <sup>4)</sup> , Tag-it, PicoPass <sup>5)</sup>
OS SUPPORT	Windows XP, Vista, Embedded CE <sup>7)</sup> , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android <sup>7)</sup> , iOS <sup>7)</sup> , MAC OS X <sup>7)</sup>
PERIPHERAL INTERFACES	USB
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), Air: up to 848 kbit/s
CERTIFICATION NAME	TWN4 MultiTech 2 HF
CERTIFICATION(S)	CE/RED, FCC, IC, REACH and RoHS-III compliant, and many more
ORDER CODE(S)	T4BT-FB2BEL2-LCCID USB Black T4BT-FB2WEL2-LCCID USB White

<sup>1)</sup>UID only <sup>2)</sup>r/w enhanced security features on request <sup>3)</sup>In preparation <sup>4)</sup>r/w in direct chip command mode <sup>5)</sup>UID only, read/write on request <sup>6)</sup>UID + r/w public area

<sup>7)</sup>On request

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