

TWN4 MULTITECH 2 HF PCSC SINGLE-FREQUENCY PC/SC RFID READER FOR HF WITH NFC SUPPORT



TWN4 MultiTech 2 HF PCSC (exemplary illustration)

The TWN4 MultiTech 2 family of contactless RFID readers and modules allows users to read and write to almost any LF and HF tags and labels. All products support NFC and, optionally, Bluetooth Low Energy (BLE). In addition, they are also compatible with the two most commonly used smartphone operating systems, Android and iOS, which gives the option to integrate them in mobile identification applications. The desktop readers are available as Plug & Play devices that can be easily customized (i.e. inlay and housing color), whereas the PCB modules offer a large amount of interfaces and a perfect form factor for an easy and quick integration in any host device. This broad range of product features makes the TWN4 MultiTech 2 family an excellent solution for almost every project.

Key features of the TWN4 MultiTech 2 HF PCSC desktop reader include a powerful SDK for writing apps that are executed directly on the reader, the possibility to upgrade the firmware in the field and a direct chip-commands support. Thanks to its PC/SC interface and CCID protocol, it is also the perfect reader for Single Sign-on applications. Additionally, the reader can read simultaneously a lot of HF RFID technologies from the 13.56 MHz frequency band, including NFC. This gives the option to select as many of the technologies required instead of being forced to select just a few ones.

Special features:

- + Possibility to read many HF RFID technologies
- + Plug & Play Single Sign-on device
- + Supports Apple VAS and ECP 2.0¹)
- + 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
- + CCID and PC/SC 2.01

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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(S)	Integrated				
HOUSING	Material: ABS UL94-V0				
HOUSING	Color: black or white				
DIMENSIONS (L X W X H)	Approx. 88.00 x 56.00 x 18.50 mm / 3.46 x 2.20 x 0.73 inch				
POWER	USB: 4.3 V - 5.5 V				
POWER	PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A				
CURRENT CONSUMPTION	RF field on: 200 mA typically				
	Operating: -25 °C up to +70 °C (-13 °F up to +158 °F)				
TEMPERATURE RANGE	Storage: -40 °C up to +75 °C (-40 °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)				
OS SUPPORT	Windows 7 (32-/64-bit) and higher versions, Linux, Android ²⁾ , iOS ²⁾ , MAC OS X ²⁾				
PERIPHERAL INTERFACES	USB, 1 SAM slot				
TRANSMISSION SPEED	Host: USB full speed (12 Mbit/s), HF Air: up to 848 kbit/s				
CERTIFICATION NAME	TWN4 MultiTech 2 HF				
	CE/RED, FCC, IC, REACH and RoHS-III compliant, Apple VAS and ECP 2.0 certified ¹⁾				
CERTIFICATION(S)	and many more ³⁾				
ORDER CODE(S)	T4BT-FB2BEL2-LCCID: standard reader, USB cable, black housing				
UNDER CODE(S)	T4BT-FB2WEL2-LCCID: standard reader, USB cable, white housing				

SUPPORTED TRANSPONDERS⁴⁾

SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	ISO 14443A: LEGIC Advant ⁵⁾ , NTAG2xx, MIFARE Classic, MIFARE Classic EV1 ⁶⁾ , MIFARE DESFire EV1, MIFARE DESFire EV2 ⁷⁾ , MIFARE DESFire EV3 ⁷⁾ , MIFARE DESFire Light ²⁾ , MIFARE Mini, MIFARE Plus S, MIFARE Plus X, MIFARE Smart MX ⁸⁾ , MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ⁶⁾ , SLE44R35 ⁸⁾ , SLE66Rxx (my-d move) ⁸⁾ , Topaz ISO 14443B: Calypso ⁸⁾ , Calypso Innovatron protocol ⁸⁾ , CEPAS ⁸⁾ , CTS, Pico Pass ⁹⁾ , SRI4K, SRI512, SRIX4K, SRT512 ISO 15693: EM4x33 ⁸⁾ , EM4x35 ⁸⁾ , ICODE SLI, LEGIC Advant ⁵⁾ , M24LR16/64, MB89R118/119, PicoPass ⁹⁾ , SRF55Vxx (my-d vicinity) ⁸⁾ , Tag-it ISO 18092 / ECMA-340: NFC Forum Tag 1-5, Sony FeliCa ¹⁰) LEAF Identity: LEAF Identity:
SUPPORTED TRANSPONDERS (A OPTION)	Apple ECP 2.0 ¹⁾
SUPPORTED TRANSPONDERS (AV OPTION)	Apple VAS ¹⁾

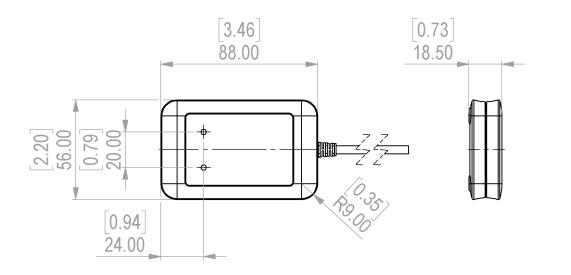
¹)For Apple licensees only and eligible implementers. Please contact ELATEC for details. ²)On request ³)More information on request ⁴)Unless otherwise agreed with ELATEC, the product is delivered with a standard firmware version that might be older than the latest firmware developed by ELATEC. This firmware version can be changed using the ELATEC AppBlaster tool. Please note that the information given in this document regarding the transponder technologies supported by the product is based on the latest firmware version. ⁵)UID only ⁶/w enhanced security features on request ⁷)Supported as part of the EV1 downward compatibility ⁸)r/w in direct chip command mode ⁹)UID only, r/w on request ¹⁰)UID + r/w public area ¹¹)AV2 only, requires one free SAM slot for MIFARE SAM AV2 card

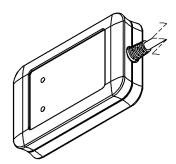


ACCESSORIES

	HKSI-B	Snap-in holder, black
	HKSI-W	Snap-in holder, white
HOLDER(S)	HKBR-B	Bracket holder, black
	HKBR-W	Bracket holder, white

TECHNICAL DRAWINGS





All measures in mm [inch]

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