

TWN4 MultiTech 2 LF

Single-frequency LF RFID reader



TWN4 MultiTech 2 LF (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 design), 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.

TWN4 MultiTech 2 LF is a single-frequency product model of the TWN4 MultiTech 2 family that allows users to read and write almost all common worldwide 125 kHz tags and/or labels. Further key features of the reader include a powerful SDK for writing apps that are executed directly on the module, the possibility to upgrade the firmware in the field and transparent data exchange with the RFID media.

Special features:

- + Possibility to read many LF RFID technologies
- Cost-optimized single-frequency RFID solution (125 kHz) with integrated LF antenna
- + 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
- + Supports transparent data exchange with RFID media
- + CCID and PC/SC 2.01
- + Customizable inlay design



































TECHNICAL DATA

FREQUENCY	125 kHz (LF)		
ANTENNA	Integrated		
HOUSING	Material: ABS UL94-V0		
	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		
	RS-232: requires 5 V external power supply		
	ES1/PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A		
CURRENT CONSUMPTION	RF field on: 90 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	Up to 100 mm / 4 inch, depending on environment and transponder		
OPERATING MODES (USB)	USB keyboard emulation — USB virtual COM port — CCID / PC/SC 2.01		
MTBF	500,000 hours		
WEIGHT	Approx. 115 g / 4.06 oz (with cable)		
SUPPORTED OPTIONS AND TRANSPONDERS	Depending on the firmware version and installed options, ELATEC readers and modules can		
	support a wide range of RFID technologies. Please refer to the relevant ELATEC		
	transponder matrix (available at www.elatec-rfid.com/int/transponder-technology) for more		
	information about the available options and RFID technologies supported by the product.		
OS SUPPORT	Windows 7 (32-/64-bit) and higher versions, Linux, Android ¹⁾ , iOS ¹⁾ , MAC OS X ¹⁾		
PERIPHERAL INTERFACES	USB, RS-232, 1 SAM slot for ID-000 card format		
TRANSMISSION SPEED	Host: USB full speed (12 Mbit/s), RS-232: up to 115,200 baud		
CERTIFICATION NAME	TWN4 MultiTech 2 LF		
CERTIFICATIONS	Non-exhaustive list ²⁾ :		
	CE/RED, FCC, IC, TAA compliant, REACH and RoHS-III compliant		
ORDER CODES	T4BT-FB2BEL4 Standard reader, USB cable, black housing		
	T4BT-FB2WEL4 Standard reader, USB cable, white housing		
	T4BT-FR2BEL4 Standard reader, RS-232 cable, black housing		
	T4BT-FR2WEL4 Standard reader, RS-232 cable, white housing		
	T4BT-FB2BEL4-P Reader with P option, USB cable, black housing		
	T4BT-FB2WEL4-P Reader with P option, USB cable, white housing		
	T4BT-FR2BEL4-P Reader with P option, RS-232 cable, black housing		
	T4BT-FR2WEL4-P Reader with P option, RS-232 cable, white housing		
	The order codes above describe RFID readers equipped with a two-meter-long cable.		
	Contact ELATEC for other cable lengths.		

¹⁾On request

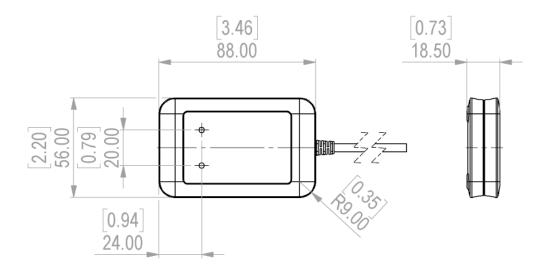
²⁾The product has been certified for use in many countries and regions. Contact your Sales representative for detailed information about all certifications and approvals granted to the product.

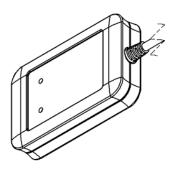


ACCESSORIES

HOLDERS	HKSI-B	Snap-in holder, black	
	HKSI-W	Snap-in holder, white	
	HKBR-B	Bracket holder, black	
	HKBR-W	Bracket holder, white	
POWER SUPPLIES	ELATEC RFID readers and modules can be delivered with additional cables or external		
	power supplies. Refer to the data sheet Cables for ELATEC devices for detailed		
	information.		







All measures in mm [inch]

ELATEC GmbH

Zeppelinstr. 1 82178 Puchheim Germany P +49 89 552 9961 0 F +49 89 552 9961 129

E-Mail: info-rfid@elatec.com Website: elatec.com **ELATEC Systems GmbH**

Schwieberdinger Str. 44 71636 Ludwigsburg Germany P +49 7141 309736 0

E-Mail: info-rfid@elatec.com Website: elatec.com ELATEC Inc.

1995 SW Martin Hwy
Palm City • FL 34990
USA
P +1 772 210 2263
F +1 772 382 3749

E-Mail: americas-info@elatec.com
Website: elatec.com

ELATEC Technology (Shenzhen) LLC

918, Main Building, Tian An Cyber Times
Tower, No. 6, Tairan Fourth Road, Tian 'an
Community, Shatou Neighborhood
Futian District • Shenzhen • China
P/F +86 755 2394 6014
E-Mail: apac-info@elatec.com
Website: elatec.com

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