

TWN4 MultiTech 2

Multi-frequency RFID reader (LF/HF) with NFC and BLE support



TWN4 MultiTech 2 (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.

Key features of the TWN4 MultiTech 2 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 transparent data exchange with the RFID media. Additionally, the reader can 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 ones.

Special features:

- Possibility to read more than 60 RFID technologies
- + Two RFID frequencies (125 kHz/13.56 MHz), NFC and BLE
- + 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

FREQUENCIES	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)		
ANTENNAS	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: 120 mA typically + 16 mA (BLE) / Sleep: 500 μA typ.		
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		
	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 4.1 (upgradable to 4.2) or 5.x, depending on BLE module generation ¹⁾		
MTBF	500,000 hours		
WEIGHT	Approx. 120 g / 4.23 oz (with cable)		
	Depending on the firmware version and installed options, ELATEC readers and modules can		
SUPPORTED OPTIONS AND	support a wide range of RFID technologies. Please refer to the relevant ELATEC		
TRANSPONDERS	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 ²⁾ , iOS ²⁾ , MAC OS X ²⁾		
PERIPHERAL INTERFACES	USB, RS-232, SAM slot(s) ³⁾ for ID-000 card format		
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		
CERTIFICATIONS	Non-exhaustive list ⁴⁾ :		
	CE/RED, FCC, IC, UL listed, TAA compliant, REACH and RoHS-III compliant		

¹⁾Depending on product variant

²⁾On request

³Readers equipped with a BLE module of 1st generation contain two free SAM slots, whereas readers equipped with a BLE module of 2nd generation only have one free SAM slot.

⁴The 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.

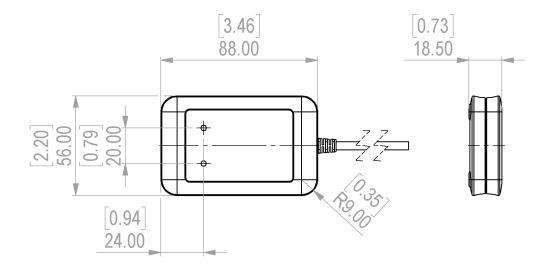


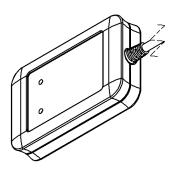
Doodoro with DLC mos	dula 1st Can	
	Standard reader, USB cable, black housing	
	Standard reader, USB cable, white housing	
	Standard reader, RS-232 cable, black housing	
	Standard reader, RS-232 cable, white housing	
	Reader with P option, USB cable, black housing	
T4BT-FB2WEL7-P	Reader with P option, USB cable, white housing	
T4BT-FR2BEL7-P	Reader with P option, RS-232 cable, black housing	
T4BT-FR2WEL7-P	Reader with P option, RS-232 cable, white housing	
T4BT-FB2BEL7-PI	Reader with PI options, USB cable, black housing	
T4BT-FB2WEL7-PI	Reader with PI options, USB cable, white housing	
T4BT-FR2BEL7-PI	Reader with PI options, RS-232 cable, black housing	
T4BT-FR2WEL7-PI	Reader with PI options, RS-232 cable, white housing	
Readers with BLE module 2 nd Gen		
T4BT-FB2BEL7-XB	Standard reader, USB cable, black housing	
T4BT-FB2WEL7-XB	Standard reader, USB cable, white housing	
T4BT-FR2BEL7-XB	Standard reader, RS-232 cable, black housing	
T4BT-FR2WEL7-XB	Standard reader, RS-232 cable, white housing	
T4BT-FB2BEL7-XBP	Reader with P option, USB cable, black housing	
T4BT-FB2WEL7-XBP	Reader with P option, USB cable, white housing	
T4BT-FR2BEL7-XBP	Reader with P option, RS-232 cable, black housing	
T4BT-FR2WEL7-XBP	Reader with P option, RS-232 cable, white housing	
	Reader with PI options, USB cable, black housing	
	Reader with PI options, USB cable, white housing	
	Reader with PI options, RS-232 cable, black housing	
	Reader with PI options, RS-232 cable, white housing	
THUI THE VVEL / "NUTT	House with 11 options, no 202 cable, white housing	
The order codes above	e describe RFID readers equipped with a two-meter-long cable.	
Contact ELATEC for other cable lengths.		
	T4BT-FR2WEL7-P T4BT-FB2BEL7-PI T4BT-FB2WEL7-PI T4BT-FR2BEL7-PI T4BT-FR2WEL7-PI T4BT-FR2WEL7-PI Readers with BLE moor T4BT-FB2BEL7-XB T4BT-FB2WEL7-XB T4BT-FR2WEL7-XB T4BT-FR2WEL7-XB T4BT-FB2BEL7-XBP T4BT-FR2WEL7-XBP T4BT-FR2WEL7-XBP T4BT-FR2WEL7-XBP T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI T4BT-FR2WEL7-XBPI	

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]

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