

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

125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)		
Integrated		
Material: ABS UL94-V0		
Color: black or white		
Approx. 88.00 x 56.00 x 18.50 mm / 3.46 x 2.20 x 0.73 inch		
USB: 4.3 V - 5.5 V		
RS-232: requires 5 V external power supply		
PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A		
RF field on: 120 mA typically + 16 mA (BLE) / Sleep: 500 µA typ.		
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)		
5% to 95% non-condensing		
LF and HF: up to 100 mm / 4 inch, depending on environment and transponder		
BLE: up to several meters/feet		
USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01		
BLE version 4.1 (upgradable to 4.2) or 5.x, depending on BLE module generation ¹⁾		
500,000 hours		
Approx. 120 g / 4.23 oz (with cable)		
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.		
Windows 7 (32-/64-bit) and higher versions, Linux, Android ²⁾ , iOS ²⁾ , MAC OS X ²⁾		
USB, RS-232, SAM slot(s) ³⁾ for ID-000 card format		
Host: USB full speed (12 Mbit/s), RS-232: up to 115,200 baud, HF Air: up to 848 kbit/s		
TWN4 MultiTech 2		
Non-exhaustive list ⁴⁾ :		
CE/RED, FCC, IC, UL listed, REACH and RoHS-III compliant		

¹⁾Depending on product variant

²⁾On request

³⁾Readers 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.

⁴⁾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.



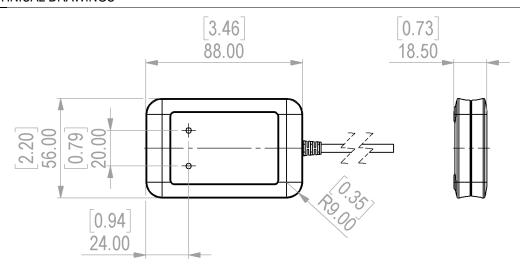
	w	11.44	
	Readers with BLE m		
	T4BT-FB2BEL7	Standard reader, USB cable, black housing	
	T4BT-FB2WEL7	Standard reader, USB cable, white housing	
	T4BT-FR2BEL7	Standard reader, RS-232 cable, black housing	
	T4BT-FR2WEL7	Standard reader, RS-232 cable, white housing	
	T4BT-FB2BEL7-P	Reader with P option, 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	
ORDER CODES	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	
		I Reader with PI options, RS-232 cable, white housing	
	The order codes above	e describe RFID readers equipped with a two-meter-long cable.	
	Contact ELATEC for c		
	CONTROL ELATED TO C	and outle lengths.	

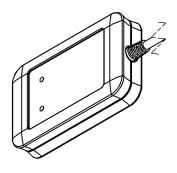
ACCESSORIES

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



TECHNICAL DRAWINGS





All measures in mm [inch]

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