

TWN4 MultiTech 2 LEGIC LF HF

(LEGIC SM-4200/4500 frontend) Multi-frequency RFID reader (LF/HF) with NFC support



TWN4 MultiTech 2 LEGIC LF HF (exemplary illustration)

The contactless RFID readers and modules of the ELATEC TWN4 MultiTech 2 LEGIC family are a direct enhancement of the TWN4 MultiTech LEGIC readers with the same form factors (PCB modules and desktop readers with housing). During the development of the TWN4 MultiTech 2 LEGIC family, special emphasis has been placed on optimizing the HF performance (13.56 MHz). Compared to the predecessor TWN4 MultiTech LEGIC, the read range could be increased by more than 50% for LEGIC transponders and even doubled for some HF transponders.

TWN4 MultiTech 2 LEGIC LF HF key features 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) and NFC support
- + Optimized HF read performance
- + 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

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+ Support of segment initialization function (LEGIC SM-4500 frontend only)

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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					
FREQUENCIES	125 kHz (LF) / 13.56 MHz (HF)				
ANTENNAS	Integrated				
	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				
	USB: 4.3 V - 5.5 V				
POWER	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: 140 mA typically				
TEMPERATURE RANGE	Operating: -25 °C up to +70 °C (-13 °F up to +158 °F)				
I EIVIFENATUNE NAINGE	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				
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01				
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 <u>www.elatec-rfid.com/int/transponder-technology</u>) 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 ¹¹ , iOS ¹¹ , MAC OS X ¹¹				
PERIPHERAL INTERFACES	USB, RS-232, 2 SAM slots 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 LEGIC LF HF				
CERTIFICATIONS	Non-exhaustive list ² :				
GENTIFICATIONS	CE/RED, FCC, IC, UL listed, TAA compliant, REACH and RoHS-III compliant				

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.



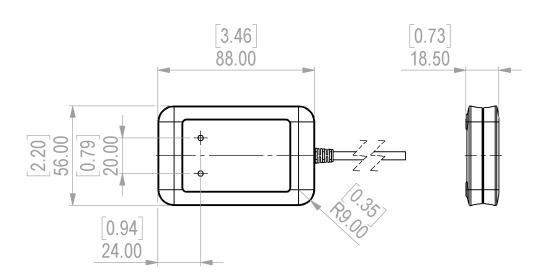
	Readers with LEGIC SM-4200					
	T4BT-BB2BEL6	Standard reader, USB cable, black housing				
	T4BT-BB2WEL6	Standard reader, USB cable, white housing				
	T4BT-BR2BEL6	Standard reader, RS-232 cable, black housing				
	T4BT-BR2WEL6	Standard reader, RS-232 cable, white housing				
	T4BT-BB2BEL6-P	Reader with P option, USB cable, black housing				
	T4BT-BB2WEL6-P	Reader with P option, USB cable, white housing				
	T4BT-BR2BEL6-P	Reader with P option, RS-232 cable, black housing				
	T4BT-BR2WEL6-P	Reader with P option, RS-232 cable, white housing				
	T4BT-BB2BEL6-PI	Reader with PI options, USB cable, black housing				
	T4BT-BB2WEL6-PI	Reader with PI options, USB cable, white housing				
	T4BT-BR2BEL6-PI	Reader with PI options, RS-232 cable, black housing				
	T4BT-BR2WEL6-PI	Reader with PI options, RS-232 cable, white housing				
ORDER CODES						
	Readers with LEGIC SM-4500					
	T4BT-BB2BEL6-5	Standard reader, USB cable, black housing				
	T4BT-BB2WEL6-5	Standard reader, USB cable, white housing				
	T4BT-BR2BEL6-5	Standard reader, RS-232 cable, black housing				
	T4BT-BR2WEL6-5	Standard reader, RS-232 cable, white housing				
	T4BT-BB2BEL6-5P	Reader with P option, USB cable, black housing				
	T4BT-BB2WEL6-5P	Reader with P option, USB cable, white housing				
	T4BT-BR2BEL6-5P	Reader with P option, RS-232 cable, black housing				
	T4BT-BR2WEL6-5P	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.					

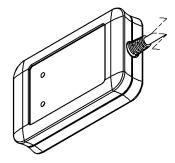
ACCESSORIES

	HKSI-B	Snap-in holder, black				
HOLDERS	HKSI-W	Snap-in holder, white				
HULDENS	HKBR-B	Bracket holder, black				
	HKBR-W	Bracket holder, white				
	ELATEC RFID readers 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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