

TWN4 MultiTech 2 LEGIC M LF HF (SM-4200/4500 frontend)

Multi-frequency RFID module (LF/HF) with NFC support



TWN4 MultiTech 2 LEGIC M LF HF (exemplary illustrations)

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 M LF HF key features 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. Additionally, the module 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 in a compact form factor for easy integration
- + Optimized HF read performance
- + Powerful SDK for writing apps which are executed directly on the module
- + 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
- + 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							
DIMENSIONS (L X W X H)	Approx. 76.00 x 49.00 x 8.20 mm / 2.99 x 1.93 x 0.32 inch							
	USB: 4.3 V - 5.5 V							
POWER	Generic interface (X1): 3.3 V \pm 5%							
FOWER	RS-232: requires 5 V external power supply							
	PS2 classified power source acc	ording to IEC 62368-1, short-circuit current < 8 A						
CURRENT CONSUMPTION	RF field on: 140 mA typically							
TEMPERATURE RANGE	Operating: -25 °C up to +80 °C (-13 °F up to +176 °F)							
TEMPERATORE NANGE	Storage: -40 °C up to +85 °C (-40 °F up to +185 °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. 10 g / 0.35 oz (without cable)							
	Depending on the firmware version and installed options, ELATEC readers and modules							
SUPPORTED OPTIONS AND	can 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 ¹), iOS ¹), MAC OS X ¹)							
PERIPHERAL INTERFACES	USB, RS-232, TTL serial (logic level 3.3 V, CMOS, 5 V tolerant), I ² C, 4 GPIOs, Clock/Data,							
	Wiegand D0/D1, 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 M LF HF							
CERTIFICATIONS	Non-exhaustive list ²):							
	CE/RED, FCC, IC, REACH and RoHS-III compliant							
	Modules with LEGIC SM-4200							
	T4BO-B6	Standard reader module						
	Т4ВО-В6-Р	Reader module with P option						
ORDER CODES	T4BO-B6-PI	Reader module with PI options						
	Modules with LEGIC SM-4500							
	T4BO-B6-5	Standard reader module						
	T4BO-B6-5P	Reader module with P option						

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

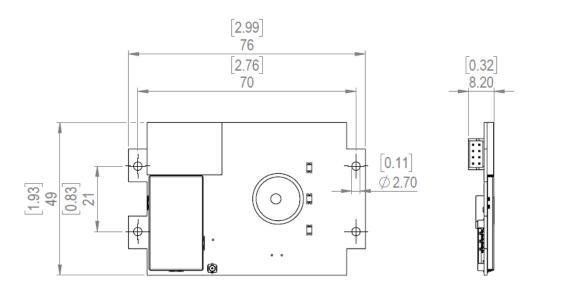
	ELATEC RFID readers and modules can be delivered with additional cables or external
CABLES AND POWER SUPPLIES	power supplies. Refer to the data sheet Cables for ELATEC devices for detailed
	information.

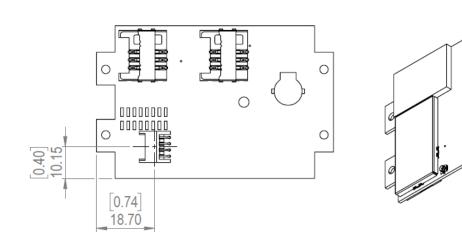


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TECHNICAL DRAWINGS





All measures in mm [inch]

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