

# TWN4 MultiTech 3 LEGIC M LF HF

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



(exemplary illustrations\*) \*Product images may show product variants or additional components that are not available.

The powerful reader modules of the ELATEC TWN4 MultiTech 3 family combine a compact form factor with optimized read/write performance. All devices integrate RFID (125 kHz and 13.56 MHz), NFC and, optionally, Bluetooth Low Energy (BLE) capabilities. Thanks to their reduced size, the modules can be easily used for almost all applications where small size and full performance matter. Furthermore, they are compatible with the most common host interfaces, such as USB, and they can also be configured with different connector options.

TWN4 MultiTech 3 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
- + Optionally available with a 24-pin header, further configurations available
- + 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
- + Optimized read/write performance combined with a compact form factor

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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						
	CO hardware configuration:						
DIMENSIONS (L X W X H)	Approx. 50.00 x 35.00 x 9.50 mm, maximum diameter < 55.00 mm						
	Approx. 1.97 x 1.38 x 0.37 inch, maximum diameter < 2.17 inch						
	Refer to the technical drawings below for further information.						
	Micro USB (X1): 4.3 V - 5.5 V						
POWER	Generic interface (X2): 3.3 V (pin 19) or 4.3 V - 5.5 V (pin 13)						
TOWLIN	UART (X3): 5 V						
	ES1/PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A						
CURRENT CONSUMPTION	RF field on: 200 mA typically / Sleep: 500 µA typ.						
TEMPERATURE RANGE	Operating: -25 °C up to +80 °C (-13 °F up to +176 °F)						
I EIVIFENATUNE NAINGE	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						
	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 <sup>1)</sup> , iOS <sup>1)</sup> , MAC OS X <sup>1)</sup>						
	1 SAM slot (ID-000 card format)						
	X1: micro USB, female						
	X2: generic interface (refer to pin assignment in technical drawings below for more						
PERIPHERAL INTERFACES	information about the available interfaces)						
	X3: UART connector header 4 pos., 1.25 mm pitch, surface mount, right-angle						
	In the C1 and C2 hardware configurations, the reader modules are equipped with a 24-pin						
	header (no pin header available with the CO hardware configuration).						
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 3 LEGIC M LF HF						
CERTIFICATIONS	Non-exhaustive list <sup>2)</sup> :						
	CE/RED, FCC, IC, TAA compliant, REACH and RoHS-III compliant						
	T430-B6C0 Reader module in standard configuration						
ORDER CODES	T430-B6C0-PReader module with P option						
	Order codes for C1 and C2 hardware configurations on request.						

<sup>1)</sup>On request

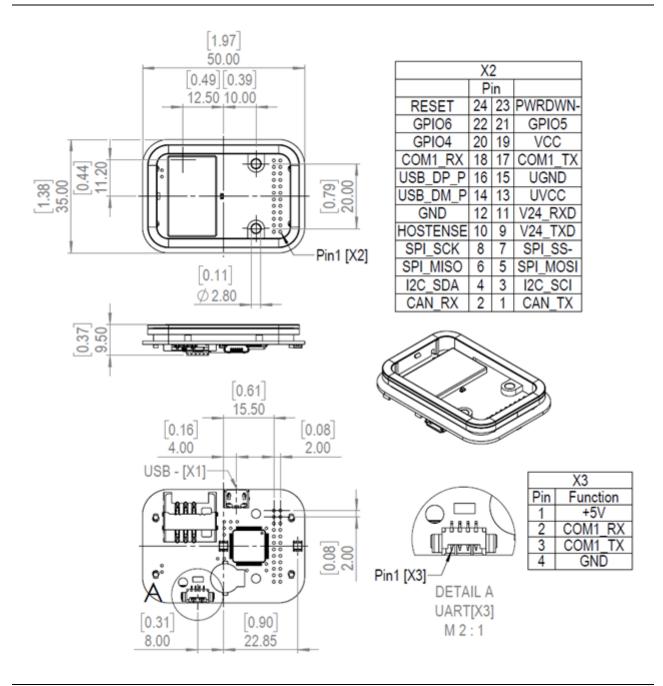
<sup>2)</sup>The product has been certified for use in many countries and regions. Contact your Sales representative for detailed information about all certifications and approvals granted to the product.

### ACCESSORIES

CABLES	ELATEC RFID modules can be delivered with additional cables. Refer to the data sheet
UADLES	Cables for ELATEC devices for detailed information.



## **TECHNICAL DRAWINGS**



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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