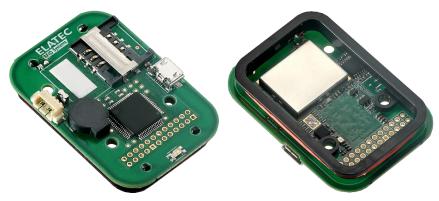


TWN4 MultiTech 3 M LF

Single-frequency LF RFID module



TWN4 MultiTech 3 M LF (exemplary illustrations*)

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 M LF is a single-frequency product model of the TWN4 MultiTech 3 family that allows users to read and write almost all common worldwide 125 kHz tags and/or labels. Further key features of the module 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.

Special features:

- + Possibility to read many LF RFID technologies
- + Cost-optimized single-frequency RFID solution (125 kHz) with integrated LF antenna
- + 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
- + Compact form factor for easy and quick installation































^{*}Product images may show product variants or additional components that are not available.



TECHNICAL DATA

FREQUENCY	125 kHz (LF)
ANTENNA	Integrated
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.
POWER	Micro USB (X1): 4.3 V - 5.5 V
	Generic interface (X2): 3.3 V (pin 19) or 4.3 V - 5.5 V (pin 13)
	UART (X3): 5 V
	ES1/PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A
CURRENT CONSUMPTION	RF field on: 90 mA typically / Sleep: 500 μA typ.
TEMPERATURE RANGE	Operating: -25 °C up to +80 °C (-13 °F up to +176 °F)
	Storage: -40 °C up to +85 °C (-40 °F up to +185 °F)
RELATIVE HUMIDITY	5% to 95% non-condensing
READ/WRITE DISTANCE	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 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 ¹⁾ , iOS ¹⁾ , MAC OS X ¹⁾
PERIPHERAL INTERFACES	1 SAM slot (ID-000 card format)
	X1: micro USB, female
	X2: generic interface (refer to pin assignment in technical drawings below for more
	information about the available interfaces)
	X3: UART connector header 4 pos., 1.25 mm pitch, surface mount, right-angle
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), RS-232: up to 115,200 baud
CERTIFICATION NAME	TWN4 MultiTech 3 M LF
CERTIFICATIONS	Non-exhaustive list ²⁾ :
	CE/RED, FCC, IC, TAA compliant, REACH and RoHS-III compliant
ORDER CODES	T430-F4C0 Standard reader module
	T430-F4C0-P Reader module with P option

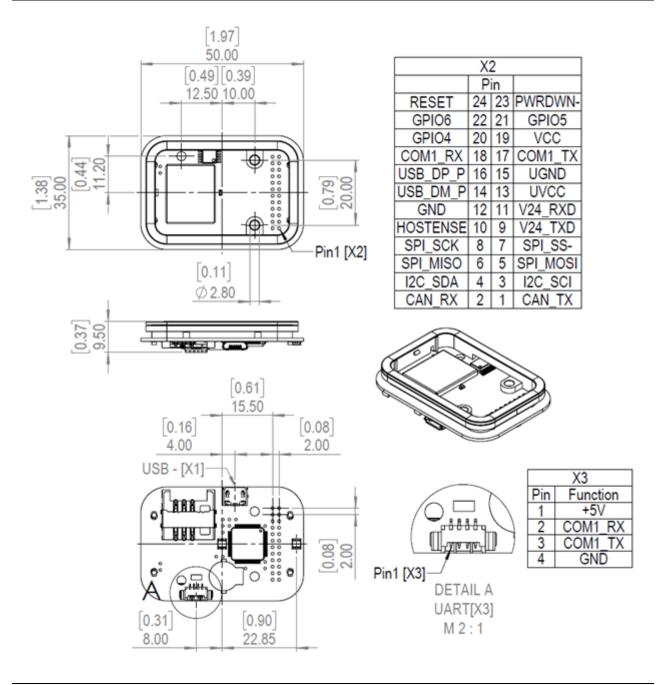
¹⁾On request

ACCESSORIES

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

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.





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 GmbHSchwieberdinger 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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