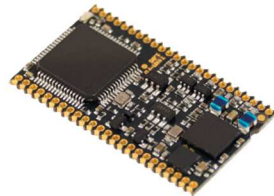


# TWN4 MULTITECH NANO LF

## MINIATURE LF RFID READER/WRITER FOR EXTERNAL ANTENNA



Version C0 (SMT)  
31 x 17.8 x 2.7 mm

Elatec's TWN4 family of transponder readers and writers allows users to read and write to almost any 125 kHz and 134.2 kHz tags and/or labels. It supports all major transponder technologies like HID, HITAG, Nexwatch, KERI, Cotag, CASI-RUSCO etc.

The TWN4 MultiTech Nano LF is designed for integration into machines or other devices. It can be connected to an external antenna through a printed circuit board (125 kHz/134.2 kHz).

### Special features:

- + Compact design (31 x 17.8 x 2.7 mm / 1.22 x 0.7 x 0.12 inch)
- + Components mounted only on one side for easy integration on the main application
- + Edge plated pads for surface mounting (C0) allows easy and reliable PCB mounting, connector option (C1) also available for THT mounting
- + Powerful SDK for writing apps which are executed directly on the reader
- + Firmware update in the field possible
- + Onboard 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + Direct chip-commands support
- + Supports connection of external ISO7816 compatible SAM cards
- + CCID and PC/SC 2.01
- + 8 GPIOs
- + 3D construction data (STEP) available on request



Elevator



EV Chargers



Access



Shop POS



Fitness  
Equipment



Ticket POS



PC Log-on



Document  
Management



Driver ID



Vending



Parking



Gaming



Locker Locks



Time  
Attendance



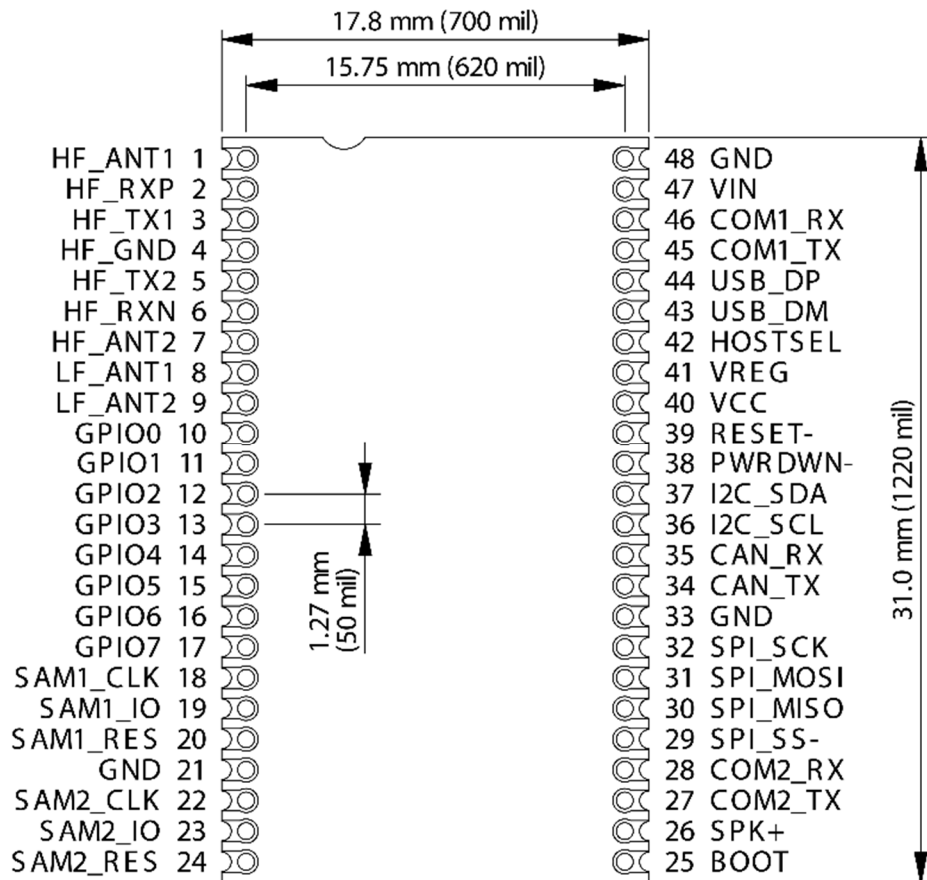
Industrial  
PC

## TECHNICAL DATA

FREQUENCY	125 kHz/134.2 kHz (LF)
ANTENNA	490 $\mu$ H $\pm$ 5% for 125 kHz/134.2 kHz
DIMENSIONS (L X W X H)	31 mm x 17.8 mm x 2.7 mm / 1.22 inch x 0.7 inch x 0.12 inch
POWER SUPPLY	3.3 V +/- 5% (direct supply) or 4.3 V - 5.5 V (use of on-board voltage regulator)
CURRENT CONSUMPTION	RF field on: 80 mA typically / Sleep: 500 $\mu$ A typ. / Cyclic Operation: TBD
TEMPERATURE RANGE	Operating: -25 °C up to +80 °C (-13 °F up to +176 °F) Storage: -45 °C up to +85 °C (-49 °F up to +185 °F)
RELATIVE HUMIDITY	5% to 95% non-condensing
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01
MTBF	500,000 hours
WEIGHT	Approx. 7 g
SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ KHZ <sup>1)</sup> , 134.2 KHZ	AWID, Cardax, CASI-RUSCO, Deister <sup>2)</sup> , EM4100, 4102, 4200 <sup>3)</sup> , EM4050, 4150, 4450, 4550, EM4305 <sup>4)</sup> , FDX-B, EM4105, HITAG 1 <sup>5)</sup> , HITAG 2 <sup>5)</sup> , HITAG S <sup>5)</sup> , ICT <sup>4)</sup> , IDTECK, Isonas <sup>4)</sup> , Keri, Miro, Nedap <sup>2)</sup> , PAC, Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX, TITAN (EM4050), UNIQUE, ZODIAC
SUPPORTED TRANSPONDERS (OPTION P)	All Standard Transponders, Cotag, G-Prox <sup>2)</sup> , HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch
OS SUPPORT	Windows XP, Vista, Embedded CE <sup>4)</sup> , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android <sup>4)</sup> , iOS <sup>4)</sup> , MAC OS X <sup>4)</sup>
PERIPHERAL INTERFACES	USB, 2 x serial (logic level 3.3 V, CMOS 5 V tolerant), I <sup>2</sup> C, SPI, 8 GPIOs, CAN <sup>4)</sup> , Clock/Data, Wiegand
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), Serial TTL: up to 115.200 baud, Air: up to 848 kbit/s
CERTIFICATION(S)	REACH and RoHS-III compliant
ORDER CODE(S)	T4NM-FDB0                      B0 Standard T4NM-FDB0-P                    B0 Option P

<sup>1)</sup>125 kHz technology requires a Russian local test and import license from the ministry of Trade and Industry (MINPROMTORC). This license has to be in place before Elatec can accept any order to be shipped to Russia <sup>2)</sup>Hash value only <sup>3)</sup>Only emulation of 4100, 4102 <sup>4)</sup>On request <sup>5)</sup>Without encryption

DRAWING



Top view

**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 USA Inc.**  
 4203 SW High Meadows Ave  
 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**  
 No. 716 Industrial Bank Tower  
 Futian District • Shenzhen • China  
 P/F +86 755 2394 6014  
 E-Mail: apac-info@elatec.com  
 Website: elatec.com

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