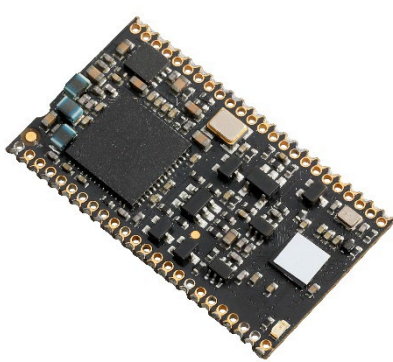
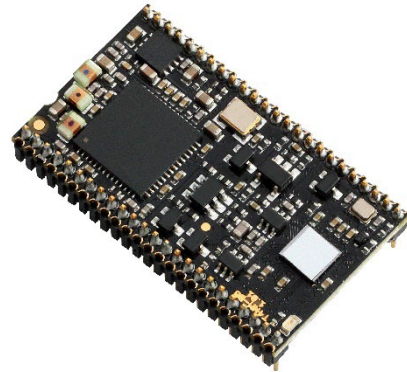


TWN4 MULTITECH NANO LEGIC 42 M

MINIATURE LF/HF/NFC RFID READER/WRITER FOR EXTERNAL 50 OHM ANTENNA



Version C0 (SMT)
31 x 17.8 x 2.7 mm



Version C1 (THT)
31 x 17.8 x 8.11 mm

ELATEC TWN4 family of RFID readers and writers allows users to read and write to almost any 125 kHz and 13.56 MHz tags and/or labels – it supports all major transponders from various suppliers like ATMEL, EM, ST, NXP, TI, HID, LEGIC, etc. and ISO standards like ISO 14443A/B (T=CL), ISO 15693, ISO 18092 / ECMA-340 (NFC).

TWN4 MultiTech Nano LEGIC 42 M is designed for integration into machines or other devices. It can be connected to an external antenna through a printed circuit board (125 kHz, 13.56 MHz or both).

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
- + On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + Direct chip-commands support
- + Supports connection of external ISO 7816 compatible SAM cards
- + CCID and PC/SC 2.01
- + 8 GPIOs
- + Supports quick (re)configuration over network and over wireless interface with TWN4 CONFIG Card
- + TWN4 Upgrade Card for P option available on request
- + 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



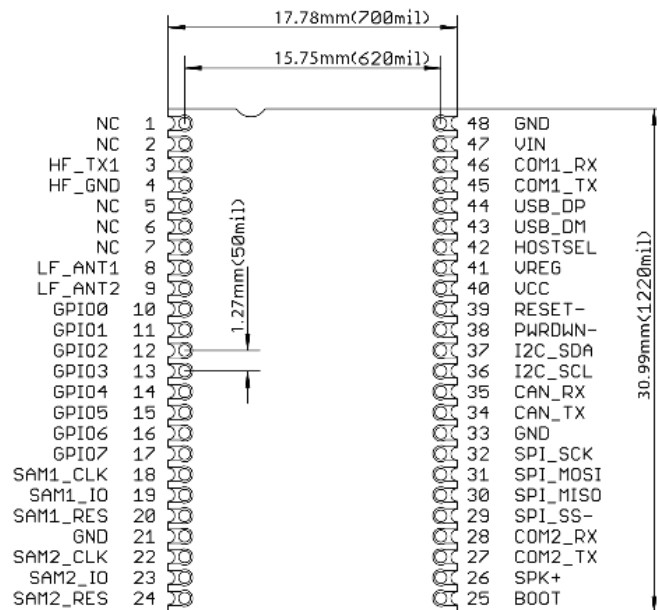
Industrial
PC

TECHNICAL DATA

FREQUENCY	125 kHz (LF) / 13.56 MHz (HF)																
ANTENNA(S)	Externally, 50 Ohm for 13.56 MHz – 490 μ H \pm 5% for 125 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	3.3 V \pm 5% (direct supply) or 4.3 V - 5.5 V (use of on-board voltage regulator) Limited power source according to the safety norms listed in the respective declaration of conformity, short-circuit current < 8 A																
CURRENT CONSUMPTION	RF field on: 120 mA typically / Sleep: 500 μ A typ. / Cyclic Operation: TBD																
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																
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01																
MTBF	500,000 hours																
WEIGHT	Approx. 7 g / 0.25 oz																
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	<p><u>ISO14443A:</u> HID iCLASS DESFire¹⁾, HID iCLASS MIFARE Classic¹⁾, HID iCLASS SEOS¹⁾, LEGIC Advant, NTAG2xx, MIFARE Classic, MIFARE Classic EV1²⁾, MIFARE DESFire EV1, MIFARE DESFire EV2³⁾, MIFARE DESFire EV3³⁾, MIFARE DESFire Light⁴⁾, MIFARE Mini, MIFARE Plus S/X, MIFARE Smart MX⁵⁾, MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1²⁾, SLE44R35⁵⁾, SLE66Rxx (my-d move)⁵⁾</p> <p><u>ISO14443B:</u> Calypso⁵⁾, CEPAS⁵⁾, HID iCLASS¹⁾, Pico Pass¹⁾</p> <p><u>ISO15693:</u> EM4x33⁵⁾, EM4x35⁵⁾, HID iCLASS¹⁾, HID iCLASS SE/SR/Elite¹⁾, ICODE SLI, LEGIC Advant, M24LR16/64, PicoPass¹⁾, SRF55Vxx (my-d vicinity)⁵⁾, Tag-it</p> <p><u>ISO18092 ECMA-340:</u> NFC Forum Tag 1-5⁶⁾, Sony FeliCa⁷⁾</p> <p><u>LEGIC Prime:</u> LEGIC Prime</p>																
SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ ⁸⁾	AWID, Cardax ⁹⁾ , CASI-RUSCO, Deister ⁹⁾ , EM4050, EM4100, EM4102, EM4150, EM4200 ¹⁰⁾ , EM4305, EM4450, EM4550, HITAG 1 ¹¹⁾ , HITAG 2 ¹¹⁾ , HITAG S ¹¹⁾ , ICT ⁴⁾ , IDTECK, ISONAS, Keri, Miro, Nedap ⁹⁾ , Pyramid, Q5, T5557, T5567, T5577, TITAN (EM4050), UNIQUE, ZODIAC																
SUPPORTED TRANSPONDERS (OPTION P)	All standard transponders, G-Prox ⁹⁾ , HID 1326 Prox II, HID 1336 DuoProx II, HID 1346 ProxKey III, HID 1386 ISO Prox II, HID 1391 Micro Prox, HID Prox, Indala, ioProx, Nexwatch																
OS SUPPORT	Windows 7 (32-/64-bit) and higher, Linux, Android ⁴⁾ , iOS ⁴⁾ , MAC OS X ⁴⁾																
PERIPHERAL INTERFACES	USB, 2 x serial (logic level 3.3 V, CMOS 5 V tolerant), I ² C, SPI, 8 GPIOs, 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)	CE/RED, FCC, IC, REACH and RoHS-III compliant Further information on request																
ORDER CODE(S)	<table border="0"> <tr> <td>T4NM-B5C0</td> <td>C0 Standard</td> </tr> <tr> <td>T4NM-B5C0-P</td> <td>C0 Option P</td> </tr> <tr> <td>T4NM-B5C1</td> <td>C1 Standard</td> </tr> <tr> <td>T4NM-B5C1-P</td> <td>C1 Option P</td> </tr> <tr> <td>T4NM-B5C0-T20</td> <td>C0 Option, 20 pcs. tray</td> </tr> <tr> <td>T4NM-B5C0-PT20</td> <td>C0 Option P, 20 pcs. tray</td> </tr> <tr> <td>T4NM-B5C0-R100</td> <td>C0 Option, 100 pcs. reel</td> </tr> <tr> <td>T4NM-B5C0-R500</td> <td>C0 Option, 500 pcs. Reel</td> </tr> </table>	T4NM-B5C0	C0 Standard	T4NM-B5C0-P	C0 Option P	T4NM-B5C1	C1 Standard	T4NM-B5C1-P	C1 Option P	T4NM-B5C0-T20	C0 Option, 20 pcs. tray	T4NM-B5C0-PT20	C0 Option P, 20 pcs. tray	T4NM-B5C0-R100	C0 Option, 100 pcs. reel	T4NM-B5C0-R500	C0 Option, 500 pcs. Reel
T4NM-B5C0	C0 Standard																
T4NM-B5C0-P	C0 Option P																
T4NM-B5C1	C1 Standard																
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T4NM-B5C0-R100	C0 Option, 100 pcs. reel																
T4NM-B5C0-R500	C0 Option, 500 pcs. Reel																

¹⁾UID only ²⁾r/w enhanced security features on request ³⁾supported as part of the EV1 downward compatibility ⁴⁾On request ⁵⁾r/w in direct chip command mode
⁶⁾NFC Forum Tag 1 not supported ⁷⁾UID + r/w public area ⁸⁾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 ⁹⁾Hash value only ¹⁰⁾Only emulation of 4100, 4102 ¹¹⁾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 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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