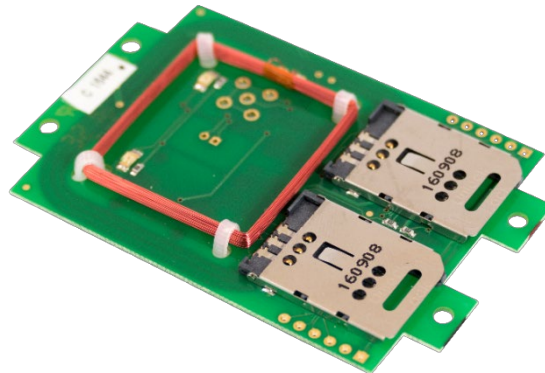


TWN4 MultiTech LEGIC M

(SM-4200/4500 frontend)

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



TWN4 MultiTech LEGIC M
(exemplary illustration)

ELATEC TWN4 family of RFID readers and modules 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 and ISO 18092 / ECMA-340 (NFC). The new generation is a direct enhancement to the successful TWN3 family as it comes in the same mechanical dimensions (OEM PCB and desktop housing). The readers support host communication via USB or RS-232.

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
- + 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
- + Dedicated expansion bus for connection of LCD, mass storage, etc.
- + Support of segment initialization function (LEGIC SM-4500 only)
- + High-level command library for cash / value handling, e.g. electronic purse (LEGIC S-4500 only)



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 14.00 mm / 2.99 x 1.93 x 0.55 inch |
| POWER | USB: 4.3 V - 5.5 V Connector CNA: 3.3 V ± 5% RS-232: requires 5 V external power supply PS2 classified power source according 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) 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) |
| SUPPORTED OPTIONS AND TRANSPONDERS | Depending on the firmware version and installed options, ELATEC readers and modules can support a wide range of RFID technologies. Please refer to the relevant ELATEC 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 | USB, RS-232, 2x TTL serial (logic level 3.3 V, CMOS, 5 V tolerant), I ² C, 2 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 LEGIC M |
| CERTIFICATIONS | Non-exhaustive list ²⁾ : CE/RED, FCC, IC, REACH and RoHS-III compliant |
| ORDER CODES | <p>Modules with LEGIC SM-4200</p> <p>T4DO-B Standard reader module T4DO-B-P Reader module with P option</p> <p>Modules with LEGIC SM-4500</p> <p>T4BO-B-5 Standard reader module T4BO-B-5P Reader module with P option</p> |

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

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

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