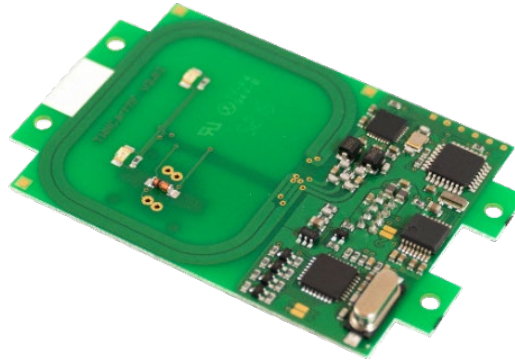


# TWN3 MIFARE M

Single-frequency HF RFID module with NFC support



TWN3 MIFARE M  
(exemplary illustration)

TWN3 MIFARE M is an RFID reader module designed for easy integration into various applications that supports either USB or RS-232 communication just in dependence on the connection cable. The module is available as a PCB without housing for direct integration into embedded applications. It can be programmed with a script language for autonomous execution of even complex commands like login procedures, increment/decrement functions and many more.



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	13.56 MHz (HF)
ANTENNA	PCB aircoil, 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: 5.0 V ± 10% RS-232: requires 5 V external power supply ES1/PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A
CURRENT CONSUMPTION	55 mA typically (USB, normal operation); 120 mA peak
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 (bi-directional communication) – Direct access to built-in RFID module (transparent mode)
MTBF	500,000 hours
WEIGHT	Approx. 15 g / 0.53 oz
SUPPORTED TRANSPONDERS	Depending on the firmware version, the reader supports a wide range of transponder technologies. Please refer to the relevant ELATEC transponder matrix (available at <a href="http://www.elatec-rfid.com/int/transponder-technology">www.elatec-rfid.com/int/transponder-technology</a> ) for more information about the transponder technologies supported by the reader.
OS SUPPORT	Windows 7 (32-/64-bit) and higher versions, Linux
PERIPHERAL INTERFACES	USB, RS-232, 2 GPIOs, 5 V TTL serial interface
TRANSMISSION SPEED	USB full speed (12 Mbit/s) RS-232: baudrate 9600 Parity: none, even, odd
CERTIFICATION NAME	TWN3 MIFARE M
CERTIFICATIONS	Non-exhaustive list <sup>1)</sup> : CE/RED, REACH and RoHS-III compliant
ORDER CODES	T3DO-M

<sup>1)</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	CAB-B2	USB cable type A 200 cm / 78.74 inch
	CAB-B3	USB cable type A 12 cm / 4.72 inch
	CAB-B4	USB cable type A 45 cm / 17.72 inch
	CAB-B7	USB cable type A 120 cm / 47.24 inch
	CAB-M1	USB cable mini 12 cm / 4.72 inch
	CAB-M2	USB cable mini 25 cm / 9.84 inch
	CAB-R2	RS-232 cable 200 cm / 78.74 inch
POWER SUPPLIES	PWA-AUS4	Power supply (AUS)
	PWA-EU4	Power supply (EU)
	PWA-UK4	Power supply (UK)
	PWA-US4	Power supply (US)

### 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](mailto:info-rfid@elatec.com)  
Website: [elatec.com](http://elatec.com)

### ELATEC Systems GmbH

Schwieberdinger Str. 44  
71636 Ludwigsburg  
Germany  
P +49 7141 309736 0  
E-Mail: [info-rfid@elatec.com](mailto:info-rfid@elatec.com)  
Website: [elatec.com](http://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](mailto:americas-info@elatec.com)  
Website: [elatec.com](http://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](mailto:apac-info@elatec.com)  
Website: [elatec.com](http://elatec.com)

ELATEC reserves the right to change any information or data in this document without prior notice. ELATEC declines all responsibility for the use of this product with any other specification but the one mentioned above. Any additional requirement for a specific customer application has to be validated by the customer themselves at their own responsibility. Where application information is given, it is only advisory and does not form part of the specification. Disclaimer: All names used in this document are registered trademarks of their respective owners.