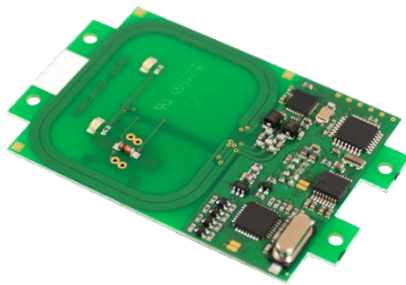


# TWN3 LEGIC NFC TWN3 LEGIC NFC M

## PROGRAMMABLE RFID READERS/WRITERS FOR HF AND NFC



TWN3 LEGIC NFC M  
PCB top view



TWN3 LEGIC NFC  
(inlay customizable)

TWN3 LEGIC NFC and TWN3 LEGIC NFC M are transponder readers designed for easy integration into various applications. Both devices support either USB or RS-232 communication just in dependence on the connection cable. TWN3 LEGIC NFC is available as a ready-to-connect desktop reader in a slim line black or white housing, whereas TWN3 LEGIC NFC M is an OEM board (PCB) without housing for direct integration into embedded applications.

Both readers can be programmed with a script language for autonomous execution of even complex commands like login procedures, increment/decrement functions and many more.

Special features:

- + 5 V serial TTL interface
- + 2 GPIOs



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(S)	Integrated
HOUSING	Material: ABS UL94-V0, color: black or white
DIMENSIONS (L X W X H)	TWN3 LEGIC NFC: 88 mm x 56 mm x 18 mm / 3.5 inch x 2.2 inch x 0.7 inch TWN3 LEGIC NFC M: 76 mm x 49 mm x 14 mm / 3.0 inch x 1.9 inch x 0.6 inch
POWER	5.0 V ± 10% via communication cable (USB); serial version requires external power supply Limited power source according to the safety norms listed in the respective declaration of conformity, short-circuit current < 8 A
CURRENT CONSUMPTION	140 mA typically (USB, normal operation); 200 mA peak
TEMPERATURE RANGE	TWN3 LEGIC NFC, Operating: -25 °C up to +70 °C (-13 °F up to +158 °F) TWN3 LEGIC NFC, Storage: -45 °C up to +75 °C (-49 °F up to +167 °F) TWN3 LEGIC NFC M, Operating: -25 °C up to +80 °C (-13 °F up to +176 °F) TWN3 LEGIC NFC M, Storage: -45 °C up to +85 °C (-49 °F up to +185 °F)
RELATIVE HUMIDITY	5% to 95% non-condensing
READ- / WRITE DISTANCE	Up to 100 mm / 4 inch, depending on OEM environment and transponder
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port
MTBF	500,000 hours
WEIGHT	Approx. 20 g / 0.71 oz (without housing)
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	<u>ISO14443A:</u> LEGIC Advant, MIFARE Classic EV1 <sup>1)</sup> , MIFARE Classic <sup>1)</sup> , MIFARE Mini <sup>1)</sup> , MIFARE DESFire EV1, MIFARE DESFire EV2 <sup>1)</sup> , MIFARE DESFire Light <sup>1)</sup> , MIFARE Plus S, X, MIFARE Pro X <sup>2)</sup> , MIFARE Smart MX <sup>2)</sup> , MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 <sup>2)</sup> , NTAG2xx <sup>2)</sup> , SLE44R35 <sup>3)</sup> , SLE66Rxx (my-d move) <sup>3)</sup> <u>ISO18092 ECMA-340:</u> NFC Forum Tag 1-5 <sup>4)</sup> , Sony FeliCa <sup>3)</sup> , Passive peer-to-peer mode - initiator, NFC Tag 2, 3, 4 <u>ISO14443B:</u> Calypso <sup>2)</sup> , CEPAS <sup>2)</sup> , HID iCLASS <sup>1)</sup> , Moneo <sup>2)</sup> , Pico Pass <sup>3)</sup> <u>ISO15693:</u> EM4x33 <sup>3)</sup> , EM4x35 <sup>3)</sup> , HID iCLASS <sup>1)</sup> , HID iCLASS SE/SR <sup>1)</sup> , ICODE SLI <sup>3)</sup> , LEGIC Advant, M24LR16/64 <sup>3)</sup> , SRF55Vxx (my-d vicinity) <sup>3)</sup> , Tag-it <sup>3)</sup> , PicoPass <sup>1)</sup> <u>LEGIC Prime:</u> LEGIC Prime
OS SUPPORT	Windows 7 (32-/64-bit), 8, 8.1, 10, Linux
PERIPHERAL INTERFACES	USB, RS-232, 2 GPIOs, 5 V serial TTL interface
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), RS-232: Baudrate: 1200, 2400, 4800, 9600, 19200, 38400, 57600, Parity: none, even, odd
CERTIFICATION NAME	TWN3 LEGIC NFC TWN3 LEGIC NFC M
CERTIFICATION(S)	TWN3 LEGIC NFC: CE/RED, EAC, FCC, IC and many more <sup>5)</sup> TWN3 LEGIC NFC M: CE/RED and many more <sup>5)</sup> Both readers are REACH and RoHS-III compliant.
ORDER CODE(S)	<b>TWN3 LEGIC NFC</b> T3DT-BB2BEL      USB Black T3DT-BB2WEL      USB White T3DT-BR2BEL      Serial Black T3DT-BR2WEL      Serial White  <b>TWN3 LEGIC NFC M</b> T3DO-B              OEM Board

<sup>1)</sup>UID only <sup>2)</sup>r/w enhanced security features on request <sup>3)</sup>r/w in direct chip command mode <sup>4)</sup>NFC Forum Tag 1 not supported <sup>5)</sup>More information on request

## ACCESSORIES

HOLDER(S)	HKSI-B	Snap-In Holder black
	HKSI-W	Snap-In Holder white
	HKBR-B	Bracket Holder black
	HKBR-W	Bracket Holder white
POWER SUPPLY	PWA-EU3	Power Supply (EU)
	PWA-US3	Power Supply (US)
	PWA-UK3	Power Supply (UK)
	PWA-JP3	Power Supply (JP)
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

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