

TWN3 LEGIC NFC

PROGRAMMABLE RFID READER/WRITER FOR HF/NFC



PCB top view



Desktop version
(inlay customizable)

The TWN3 LEGIC NFC transponder reader is designed for easy integration into various applications. The device supports either USB or RS232 communication just in dependence on the connection cable and is available as ready-to-connect desktop reader in a slim line black or white housing or as an OEM board (PCB) without housing for direct integration into embedded applications. 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:

- + 5V serial TTL interface
- + 2 GPOs



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 | Integrated |
| HOUSING | Material: ABS UL94-V0, color: black or white |
| DIMENSIONS (L X W X H) | Desktop Reader: 88 mm x 56 mm x 18 mm / 3.5 inch x 2.2 inch x 0.7 inch OEM Board: 76 mm x 49 mm x 14 mm / 3.0 inch x 1.9 inch x 0.6 inch |
| POWER SUPPLY | 5.0 V ± 10% via communication cable (USB); serial version requires external power supply |
| CURRENT CONSUMPTION | 140 mA typically (USB, normal operation); 200 mA peak |
| TEMPERATURE RANGE | Desktop, Operating: -25 °C up to +70 °C (-13 °F up to +158 °F) Desktop, Storage: -45 °C up to +75 °C (-49 °F up to +167 °F) PCB, Operating: -25 °C up to +80 °C (-13 °F up to +176 °F) PCB, 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 environment and transponder |
| OPERATING MODES (USB) | USB keyboard emulation – USB virtual COM port |
| MTBF | 500,000 hours |
| WEIGHT | Approx. 20 g (without housing) |
| SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ | <u>ISO14443A+B:</u> LEGIC Advant, MIFARE Classic EV1 ³⁾ , MIFARE Classic ³⁾ , MIFARE Mini ³⁾ , MIFARE DESFire EV1 ³⁾ , MIFARE Plus S, X ³⁾ , MIFARE Pro X ³⁾ , MIFARE Smart MX ³⁾ , MIFARE Ultralight, MIFARE Ultralight C ⁴⁾ , MIFARE Ultralight EV1 ³⁾ , NTAG2xx ⁴⁾ , SLE44R35 ¹⁾ , SLE66Rxx (my-d move) ³⁾ , HID iCLASS ¹⁾ , PicoPass ¹⁾ <u>ISO18092 ECMA-340:</u> Sony FeliCa ¹⁾ , passive Peer-to-Peer mode - initiator, NFC Tag 2, 3, 4 ³⁾ <u>ISO15693:</u> EM4x35 ³⁾ , HID iCLASS ¹⁾ , HID iCLASS SE/SR ¹⁾ , ICODE SLI, LEGIC Advant, SRF55Vxx (my-d vicinity) ³⁾ , Tag-it, PicoPass ¹⁾ <u>LEGIC Prime:</u> LEGIC Prime |
| OS SUPPORT | Windows XP, Vista, 7(32/64 bit), 8, 8.1,10 and Linux |
| PERIPHERAL INTERFACES | USB, RS-232, 5 V serial TTL interface, 2 GPOs |
| 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 |
| CERTIFICATION(S) | ACMA, ANATEL, CE/RED, FCC, IC, REACH & RoHS-III compliant and many more |
| ORDER CODE(S) | T3DO-B: OEM Board T3DT-BB2BEL: USB Black T3DT-BB2WEL: USB White T3DT-BR2BEL: Serial Black T3DT-BR2WEL: Serial White |

¹⁾ UID only ²⁾ Without encryption ³⁾ UID only, read/write on request ⁴⁾ r/w enhanced security features 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-AU3: | Power Supply (AU) |
| | 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: | RS232 cable 200 cm / 78.74 inch |

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