TWN3 LEGIC NFC
PROGRAMMABLE RFID READER/WRITER FOR HF/NFC

TWN3 LEGIC 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 a 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.

Additional features for PCB version:

+ 5 V 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	PCB aircoil; 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	5.5 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
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
OPERATING MODES	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 (without housing)
SUPPORTED TRANSPONDERS (STANDARD)	ISO14443A+B: LEGIC Advant, MIFARE Classic EV1[4], MIFARE Classic[3], MIFARE Mini[1], MIFARE DESFire EV1[3], MIFARE Plus S, X[3], MIFARE Pro X[3], MIFARE Smart MX[3], MIFARE Ultralight[3], MIFARE Ultralight C[3], MIFARE Ultralight EV1[4], NTAG2xx[4], PayPass[1], SLE44R35[1], SLE66Rxx (my-d move)[3], HID iCLASS[1], PicoPass[1] ISO18092 ECMA-340: Sony FeliCa[1], passive Peer-to-Peer mode - initiator, NFC Tag 2, 3, 4[3] ISO15693: EM4x35[3], HID iCLASS[1], HID iCLASS SE/SR[1], ICODE SLI[3], LEGIC Advant, SRF55Vxx (my-d vicinity)[3], Tag-it[3], PicoPass[1] LEGIC Prime: LEGIC Prime
OS SUPPORT	Windows XP, Vista, 7(32/64 bit), 8, 8.1 and Linux
CERTIFICATION(S)	ACA, ANATEL, CE/RED, CFT, ENACOM, FCC, IC, India, Malaysia, RoHS-II compliant, Singapore, SRRC, Taiwan
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
CABLES	CAB-B2: USB cable type A 200 cm / 78.74 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-R2: RS232 cable 200 cm / 78.74 inch	

DRAWINGS / PIN OUT

Refer to document DS_TWN3 Pinout & Cables