TWN3 MIFARE

13.56MHz Contactless Reader/Writer

The TWN3 MIFARE 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.

Technical Data

Housing	Material ABS UL94-V0, colour black or white
Frequency	13.56 MHz
Dimensions	Desktop Reader: 88mm x 56mm x 18mm / 3.5inch x 2.2inch x 0.7inch
	OEM Board: 76mm x 49mm x 14mm / 3.0inch x 1.9inch x 0.6inch
Power Supply	5V ± 10% via communication cable (USB); serial version requires external power supply
Supply Current	55mA typ. (USB, normal operation); 120mA peak
Temperature Range	Storage: -45°C up to +85°C (-49°F up to 185°F)
	Operating: -25°C up to +80°C (-13°F up to 176°F)
Antenna	Aircoil
R/W Distance	up to 100 mm / 4 inch (depending on transponder)
Host Interfaces	USB, RS232.
OS Support	Windows XP, Vista, 7(32/64 bit), 8, 8.1 and Linux
Communication Parameters	USB: Full speed (12 MBit)
	RS232: Baudrate: 9600
	Parity: none, even, odd
Modes of Operation	USB keyboard emulation
	USB virtual COM port (bi-directional communication)
	Direct access to built-in RFID module (transparent mode)
Special Features	Powerful scripting language
Supported Transponders	▪ ISO14443A
	▪ MIFARE: Classic 1k & 4k , Classic 1k & 4k EV1[4], DESFire EV1[1], Mini, Plus S[2],X[2] , Pro X[1], SmartMX[1], PayPass[1], Ultralight, Ultralight EV1[1], Ultralight C[3] ,NTAG2xx[4]
	▪ LEGIC Advant (ISO14443A)[1]
	▪ SLE44R35[1]
	▪ SLE66Rxx (my-d move) [1]
Certifications	CE, Australia, EAC, FCC, IC, SRRC, RoHS-II compliant
Weight	Approximately 15g (without housing)
Order Code	OEM board Desktop reader: T3DO-M
	USB black: T3DT-MB2BEL
	USB white: T3DT-MB2WEL
	Serial black: T3DT-MR2BEL
	Serial white: T3DT-MR2WEL

[1] UID only, [2] Support of security level 1 [3] Without crypto [4] r/w , enhanced security features planned

Accessories

Order Code	Snap-in holder HKSI-B - black, HKSI-W - white	Bracket Holder HKBR-B - black, HKBR-W - white	CAB-B2 - USB cable 200cm / 78.74inch CAB-B4 - USB cable 45cm / 17.72inch CAB-B7 - USB cable 120cm / 47.24inch
Order Code	PWA-EU - Power Supply (EU) PWA-AUS - Power Supply (AU)	ART14713 Power Supply (US) ART14715 Power Supply (UK)	CAB-M1 - USB cable mini 12cm / 4.72inch CAB-R2 - RS232 cable 200cm / 78.74inch

Drawing/Pin Out

Refer to document DS_TWN3 Pinout & Cables