TWN3 MULTI ISO

13.56MHz Contactless Reader/Writer

The TWN3 Multi ISO transponder Reader/Writer 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.

The Secure Access Module (SAM) is supported for enhanced security and cryptographic performance. This enables the application to perform secure transactions, e.g. payment terminals etc.

ELATEC
RFID Systems

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	110mA typ. (USB, normal operation); 180mA 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	PCB Aircoil
Relative Humidity	5% to 95% non-condensing
R/W Distance	up to 100 mm / 4 inch (depending on transponder)
Host Interfaces	USB, RS232. The OEM board supports both
OS Support	Windows XP, Vista, 7(32/64 bit), 8, 8.1 and Linux
Communication Parameters	USB: Full speed (12 MBit) RS232: Baudrate: 9600, 8N1, Default
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, MIFARE Classic 1k & 4k EV1[3)], Mini, DESFire EV1, Plus S, X, Pro X, SmartMX, Ultralight, Ultralight C, Ultralight EV1[3)], LEGIC Advant[1)], PayPass[2)], SLE44R35, SLE66Rxx (my-d move), NTAG2xx[3)] ▪ ISO14443B: Calypso[2)], CEPAS[2)], Moneo[2)], PicoPass[2)], SRI512, SRT512, SRI4K, SRIX4K ▪ ISO15693: EM4x33, EM4x35, ICODE SLI, Tag-it, SRF55Vxx (my-d vicinity)[2)], M24LR16/64, MB89R118/119, HID iCLASS[1)], HID iCLASS SE/SR[1)] ▪ ISO18092 / NFC: NFC Forum Tag Type 1-4 ▪ Sony FeliCa[1)]
Certifications	CE, Australia, EAC, Egypt, FCC, IC, India, Kenia, South Africa, SRRC, RoHS-II compliant
Weight	Approximately 15g (without housing)
Order Code	OEM board Desktop reader: T3DO-U USB black: T3DT-UB2BEL USB white: T3DT-UB2WEL Serial black: T3DT-UR2BEL Serial white: T3DT-UR2WEL

[1)] UID only [2)] UID only - read/write on request [3)] 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)	PWA-US - Power Supply (US) PWA-UK - 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

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