

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.

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, Windows Vista, Windows 7 (32/64 bit) 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	<ul style="list-style-type: none"> ▪ ISO14443A: MIFARE Classic 1k, 4k, Mini, DESFire EV1, Plus S, X, Pro X, SmartMX, Ultralight, Ultralight C, LEGIC Advant¹⁾, PayPass¹⁾, SLE44R35, my-d move³⁾ (SLE66Rxx) ▪ ISO14443B: Calypso³⁾, CEPAS³⁾, Moneo³⁾, SRI512, SRT512, SRI4K, SRIX4K ▪ ISO15693: EM4x33, EM4135, ICODE SLI, Tag-it HFI family, my-d vicinity (SRF55Vxx)³⁾, M24LR16/64²⁾, MB89R118/119²⁾, PicoPass¹⁾, HID iCLASS¹⁾, LEGIC Advant¹⁾
Certifications	CE, R&TTE, WEEE, RoHS-II compliant (Europe), FCC (USA), IC (Canada), ACA (Australia/New Zealand), VCCI (Japan), SRRC (China)
Weight	Approximately 15g (without housing)
Order Code	OEM board Desktop reader: ART12441 USB black: ART12442 USB white: ART12443 Serial black: ART12463 Serial white: ART12464

¹⁾ UID only ²⁾ write function V1.19 ³⁾ UID only read/write on request

Accessories					
Order Code	Snap-in holder ART13512 black, ART15344 white		Bracket Holder ART15203 black, ART15235 white		ART11493 USB cable 200cm / 78.74inch ART13488 USB cable 45cm / 17.72inch ART13829 USB cable 120cm / 47.24inch
Order Code	ART14712 Power Supply (EU) ART14714 Power Supply (AU)	ART14713 Power Supply (US) ART14715 Power Supply (UK)	ART14269 USB cable mini 12cm / 4.72inch ART12240 RS232 cable 200cm / 78.74inch		

Drawing/Pin Out
Refer to document DS_TWN3 Reader Family Pinouts

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