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.

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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	ISO14443A Mifare - Classic 1k, 4k, Mini - DESFire EV1 - Plus S, X - Pro X - SmartMX - Ultralight, Ultralight C Legic Advant[1], PayPass[1] SLE44R35, my-d move[3] (SLE66Rxx) ISO14443B Calypso[3] CEPAS[3] Moneo[3] SRI512, SRT512, SRI4K, SRIX4K ISO15693 EM4x33, EM4135 ICODE SLI Tag-it HFI family my-d vicinity (SRF55Vxx)[3] M24LR16/64[2] MB89R118/119[2] Picopass[1] HID iClass[1] Legic Advant[1]
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
  USB black
  USB white
  Serial black
  Serial white
	
	ART12441
	
	ART12442
	ART12443
	ART12463
	ART12464

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

Accessories

Order Code	ART13512	ART13891	ART13892
	Snap-in holder for TWN3/TWN4 desktop	2.0m USB Type A cable for TWN3 Multi ISO OEM PCB	2.0m RS232 DSUB 9 DC cable for TWN3 Multi ISO OEM PCB

Order Code	ART14712	ART14713	ART14714	ART14715
AC Wall Adapter	Europe	USA	AUSTRALIA	UK

Drawing/Pin Out

Refer to document DS_TWN3 Reader Family Pinouts