

TWN3 LEGIC NFC

13.56MHz Contactless Reader/Writer



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 OEM PCB version:

- 5 V serial TTL interface
- 2 General Purpose Outputs



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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	140mA typ. (USB, normal operation); 200mA 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
R/W Distance	up to 100mm / 4 inch (depending on transponder)
Host Interface	USB, RS232. The OEM board supports both and an additional serial TTL interface via a separate connector
OS Support	Windows Vista, XP, 7 (32-/64-bit) and Linux
Communication Parameters	USB: Full speed (12 MBit) RS232: Baudrate: 1200, 2400, 4800, 9600, 19200, 38400, 57600 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	<ul style="list-style-type: none"> ▪ LEGIC Advant ▪ LEGIC Prime ▪ ISO14443 A+B compatible to part 4: MIFARE DESFire EV³⁾, MIFARE Plus³⁾, MIFARE SmartMX³⁾, my-d move (SLE66Rxx)³⁾, PayPass¹⁾, etc. ▪ ISO15693: EM4035, Tag-It, my-d vicinity (SRF55Vxx), ICODE SLI³⁾ ▪ MIFARE Classic³⁾, MIFARE Ultralight³⁾ ▪ Sony FeliCa²⁾ ▪ NFC Forum Tag Type 2-4 ▪ PicoPass¹⁾, HID iCLASS¹⁾
Certifications	CE, R&TTE, RoHS-II compliant, FCC, IC, VCCI
Weight	Approximately 15g (without housing)
Order Code	OEM board Desktop reader: ART13790 USB black: ART13857 USB white: ART13858 Serial black: ART13859 Serial white: ART13860

¹⁾UID only ²⁾encryption not supported ³⁾UID only, read/write depending on demand

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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