

## 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	3				
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 0.7inchOEM 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	Storage: -45°C up to +85°C (-49°F up to 185°F)				
Range	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				
Communicatio n 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> <li>Legic Advant</li> <li>Legic Prime</li> <li>ISO14443 A+B compatible to part 4 (Mifare DESFire EV1<sup>3</sup>), Mifare Plus<sup>3</sup>), Mifare SmartMX<sup>3</sup>), my-d move (SLE66Rxx)<sup>3</sup>), PayPass<sup>1</sup>), etc.)</li> <li>ISO15693 (EM4035, Tag-It, my-d vicinity (SRF55Vxx), ICODE SLI)<sup>3</sup>)</li> <li>Mifare Classic<sup>3</sup>), Mifare Ultralight<sup>3</sup>)</li> <li>Sony FeliCa<sup>2</sup>)</li> <li>NFC Forum Tag Type 2-4</li> <li>PicoPass<sup>1</sup>), HID iCLASS<sup>1</sup>)</li> </ul>				
Certifications	CE, R&TTE, RoHS-II compliant, FCC, IC, VCCI				
Weight	Approximately 15g (without housing)				
Order Code OEM board Desktop reader	ART13790				
USB black USB white Serial black Serial white	ART13857 ART13858 ART13859 ART13860				
	upported <sup>3</sup> UID only, read/write depending on demand				

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

Accessories						
Order Code	ART13512	ART11493	ART12240			
	Snap-in holder for TWN3/TWN4 desktop	2.0m USB Type A cable for TWN3/TWN4 OEM PCB	2.0m RS232 DSUB 9 DC cable for TWN3/TWN4 OEM PCB			
Order Code	ART14712	ART14713	ART14714	ART14715		
AC Wall Adapter 5V; 1.5A; 0-40°C	Europe	USA	AUSTRALIA	UK		

## **Drawing/Pin Out**

Refer to document DS\_TWN3 Reader Family Pinouts

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