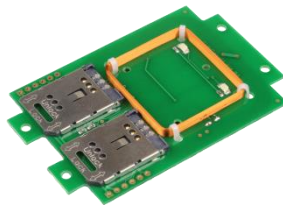


TWN4 Legic® NFC

125kHz/134.2kHz & 13.56MHz Contactless Reader/Writer



TWN4 OEM PCB
Bottom View



TWN4 OEM PCB
Top View



Desktop
Top View

Elatec's TWN4 Family allows users to read and write to almost any 125kHz/134.2kHz and 13.56MHz tags and/or labels. It supports all major transponders from various suppliers like ATMEL, EM, ST, NXP, TI, HID, LEGIC, INSIDE etc. and ISO standards like ISO14443A/B including layer 4 (T=CL), ISO15693, ISO18092 / ECMA-340 (NFC).

The new generation is a direct enhancement to the successful TWN3 family as it comes in the same mechanical dimensions (OEM PCB and Desktop Housing). Desktop supports host communication via USB or RS232.


Special Features:

- Powerful SDK for writing Apps which are executed directly on the reader
- Infield Upgradeable
- Direct chip-commands support
- Two onboard SAM sockets (Secure Access Module)¹⁾
- CCID and PC/SC 2.01¹⁾
- Additional interfaces for OEM PCB version
 - I²C, SPI²⁾, Clock/Data³⁾, Wiegand³⁾, CAN²⁾³⁾
 - Dedicated expansion bus for connection of LCD, mass storage, etc.
 - 8 GPIOs

Technical Data ⁴⁾			
Frequency	125kHz, 134.2kHz (LF) / 13.56MHz (HF)		
Housing	Material ABS UL94-V0, colour black or white		
Dimensions (L x W x H)	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	4.3V..5.5V via USB or RS232; RS232 requires external power supply; 3.3V +/- 5% via connector CNA		
Current Consumption	RF field off: 20mA / Cyclic Operation: tbd ²⁾ / Power down Mode: tbd ²⁾ RF field on: 140mA typically		
Temperature Range	Operating: -25°C up to +80°C (-13°F up to +176°F) Storage: -45°C up to +85°C (-49°F up to +185°F)		
Read- / Write Distance	Up to 100mm / 4inch (depending on transponder)		
HOST Interface	USB, RS232, serial 5V CMOS TTL, I ² C, SPI ²⁾ , Clock/Data ³⁾ , Wiegand ³⁾ , CAN ²⁾³⁾		
OS Support	Windows XP, Vista, 7 (32-/64-bit), 8, Linux		
Transmission Speed	Host: USB: Full speed (12Mbit) – RS232: up to 115.200baud / Air: up to 424kbit/s		
Modes of Operation	<ul style="list-style-type: none"> • USB key board emulation – USB virtual COM port – Transparent (direct chip-commands support) • CCID and PC/SC 2.01¹⁾ 		
Relative Humidity	5% to 95% non-condensing		
Supported Transponders	<p>Standard:</p> <ul style="list-style-type: none"> • 125kHz / 134.2kHz 4100, 4102, 4200⁵⁾, AWID, Casi Rusco, HITAG 1⁶⁾, HITAG 2⁶⁾, HITAG S⁶⁾, Keri, MIRO, Pyramid, TIRIS/HDX, UNIQUE <u>Optionally, in consideration:</u> 4305, Cardax, FDX-B, IDTECK, Q5, TITAN, T55x7, ZOODIAC • 13.56MHz / Legic Advant • 13.56MHz / Legic Prime • 13.56MHz / ISO14443 A+B compatible to part 4 Mifare DESFire, Mifare Plus⁷⁾, Mifare SmartMX⁷⁾, my-d move⁷⁾, PayPass⁷⁾ Mifare Classic¹⁾, Mifare Ultralight, Mifare Ultralight C • 13.56MHz / ISO15693 EM4035⁷⁾, Tag-It, my-d vicinity⁷⁾, ICODE SLI, M24LR16/64, PicoPass⁷⁾, HID iCLASS⁵⁾ • 13.56MHz / ISO18092 / NFC NFCIP-1: NFC Forum Tag Type 2-4 • Sony FeliCa⁶⁾ <p>Version P:</p> <ul style="list-style-type: none"> • Standard + Cotag, G-Prox⁸⁾, HID Prox, Honeywell Nexwatch, Indala, ioProx 		
Certifications	CE, R&TTE, RoHS-II compliant, FCC ⁴⁾		
MTBF	500.000 hours		
Weight	Approx. 20 g (without housing)		
Order Code	Standard	Version P	
OEM Board	ART14241	ART14773	
USB black / white	ART14242 / ART14243	ART14775 / ART14777	
RS232 black / white	ART14244 / ART14245	ART14779 / ART14780	

¹⁾In Preparation ²⁾On Request Only ³⁾External Interface Required ⁴⁾Target Specification ⁵⁾UID Only ⁶⁾Encryption Not Supported ⁷⁾UID/PUPI Only, Read/Write On Request ⁸⁾Hash Value Only

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
AC Wall Adapter	Europe	USA	AUSTRALIA
			UK

Drawing/Pin Out

Refer to document DS_TWN4 Reader Family Pinouts

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