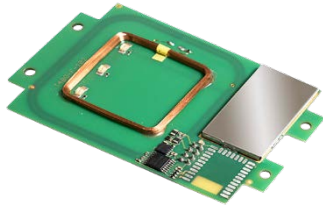


# TWN4 MULTITECH 2 LF

## 125 KHZ/134.2 KHZ CONTACTLESS READER/WRITER



TWN4 MultiTech 2 LF  
PCB top view



Desktop version  
(inlay customizable)

The TWN4 MultiTech 2 LF reader/writer allows users to read and write to almost any 125 kHz and 134.2 kHz tags and/or labels. It supports all major transponder technologies like HID, HITAG, Nexwatch, KERI, Cotag, CASI-RUSCO etc.

The reader provides a powerful API which enables system integrators and solution providers to develop complex applications which can be run directly on the reader.

Special features:

- + Powerful SDK for writing Apps which are executed directly on the reader
- + Firmware update in the field possible
- + Onboard 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + Direct chip-commands support
- + CCID and PC/SC 2.01
- + 4 GPIOs
- + 3D construction data (STEP) available on request



Elevator



EV Chargers



Access



Shop POS



Fitness  
Equipment



Ticket POS



PC Log-on



Document  
Management



Driver ID



Vending



Parking



Gaming



Locker Locks



Time  
Attendance



Industrial  
PC

## TECHNICAL DATA

FREQUENCY	125 kHz/134.2 kHz (LF)
ANTENNA	Integrated
HOUSING	Material: ABS UL94-V0, color: black or white
DIMENSIONS (L X W X H)	Desktop Reader: 88 mm x 56 mm x 18 mm / 3.5 inch x 2.2 inch x 0.7 inch OEM Board: 76 mm x 49 mm x 9 mm / 3.0 inch x 1.9 inch x 0.35 inch
POWER SUPPLY	4.3 V - 5.5 V via USB or RS-232; RS-232 requires 5 V external power supply; via connector CNB 3.3 V +/- 5%
CURRENT CONSUMPTION	RF field on: 80 mA typically
TEMPERATURE RANGE	Desktop, Operating: -25 °C up to +70 °C (-13 °F up to +158 °F) Desktop, Storage: -45 °C up to +75 °C (-49 °F up to +167 °F) PCB, Operating: -25 °C up to +80 °C (-13 °F up to +176 °F) PCB, Storage: -45 °C up to +85 °C (-49 °F up to +185 °F)
RELATIVE HUMIDITY	5% to 95% non-condensing
READ- / WRITE DISTANCE	Up to 100 mm / 4 inch, depending on environment and transponder
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), RS-232 up to 115.200 baud
MODES OF OPERATION	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01
MTBF	500,000 hours
WEIGHT	PCB approx. 11 g (no cable) Desktop approx. 116 g (with cable)
SUPPORTED TRANSPONDERS (STANDARD)	125 kHz, 134.2 kHz: AWID, Cardax, CASI-RUSCO, Deister <sup>1)</sup> , EM4100, 4102, 4200 <sup>2)</sup> , EM4050, 4150, 4450, 4550, EM4305 <sup>3)</sup> , FDX-B, EM4105, HITAG 1 <sup>4)</sup> , HITAG 2 <sup>4)</sup> , HITAG S <sup>4)</sup> , ICT <sup>3)</sup> , IDTECK, Isonas <sup>3)</sup> , Keri, Miro, Nedap <sup>1)</sup> , PAC, Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX, TITAN (EM4050), UNIQUE, ZODIAC
SUPPORTED TRANSPONDERS (VERSION P)	All Standard Transponder, Cotag, G-Prox <sup>1)</sup> , HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch
PERIPHERAL INTERFACES	USB, RS232, TTL serial (logic level 3.3 V, CMOS, 5 V tolerant), I <sup>2</sup> C, 4 GPIOs, Clock/Data, Wiegand, 1-Wire <sup>3)</sup>
OS SUPPORT	Windows XP, Vista, Embedded CE <sup>3)</sup> , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android <sup>3)</sup> , iOS <sup>3)</sup> , MAC OS X <sup>3)</sup>
CERTIFICATIONS	RoHS-II compliant, CE, FCC
ORDER CODE(S)	T4BO-F4 OEM Board T4BT-FB2BEL4 USB Black T4BT-FB2WEL4 USB White T4BT-FR2BEL4 RS232 Black T4BT-FR2WEL4 RS232 White T4BO-F4-P OEM Board Version P T4BT-FB2BEL4-P USB Version P Black T4BT-FB2WEL4-P USB Version P White T4BT-FR2BEL4-P RS232 Version P Black T4BT-FR2WEL4-P RS232 Version P White

<sup>1)</sup>Hash value only <sup>2)</sup>Only emulation of 4100, 4102 <sup>3)</sup>On request <sup>4)</sup>Without encryption

## ACCESSORIES

HOLDER	HKSI-B: Snap-In Holder black HKSI-W: Snap-In Holder white
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	HKBR-B: Bracket Holder black HKBR-W: Bracket Holder white
POWER SUPPLY	PWA-EU: Power Supply (EU) PWA-US: Power Supply (US) PWA-UK: Power Supply (UK) PWA-AU: Power Supply (AU) PWA-JP: Power Supply (JP)
CABLES	CAB-B2: USB cable type A 200 cm / 78.74 inch CAB-B3: USB cable type A 12 cm / 4.72 inch CAB-B4: USB cable type A 45 cm / 17.72 inch CAB-B7: USB cable type A 120 cm / 47.24 inch CAB-M1: USB cable mini 12 cm / 4.72 inch CAB-M2: USB cable mini 25 cm / 9.84 inch CAB-R2: RS232 cable 200 cm / 78.74 inch