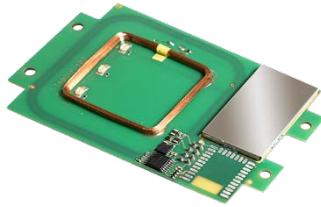


TWN4 MULTITECH 2 LF

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) | <u>125 kHz, 134.2 kHz:</u> AWID, Cardax, CASI-RUSCO, Deister ¹⁾ , EM4100, 4102, 4200 ²⁾ , EM4050, 4150, 4450, 4550, EM4305 ³⁾ , FDX-B, EM4105, HITAG 1 ⁴⁾ , HITAG 2 ⁴⁾ , HITAG S ⁴⁾ , ICT ³⁾ , IDTECK, Isonas ³⁾ , Keri, Miro, Nedap ¹⁾ , PAC, Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX, TITAN (EM4050), UNIQUE, ZODIAC |
| SUPPORTED TRANSPONDERS (VERSION P) | All Standard Transponder, Cotag, G-Prox ¹⁾ , 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 ² C, 4 GPIOs, Clock/Data, Wiegand, 1-Wire ³⁾ |
| OS SUPPORT | Windows XP, Vista, Embedded CE ³⁾ , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ³⁾ , iOS ³⁾ , MAC OS X ³⁾ |
| 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 |

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

ACCESSORIES

| | |
|--------|--|
| HOLDER | HKSI-B: Snap-In Holder black HKSI-W: Snap-In Holder white |
|--------|--|

| | |
|--------------|--|
| | 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 |