TWN4 MULTITECH SMARTCARD LEGIC 42

PROGRAMMABLE RFID/CONTACT READER & WRITER FOR LF/HF/NFC & ISO/IEC7816 CARDS



TWN4 MultiTech SmartCard LEGIC 42 (inlay customizable)

Elatec's TWN4 MultiTech SmartCard LEGIC 42 is a combination of the TWN4 MultiTech LEGIC 42 (RFID) with an integrated contact card reader/writer (ISO7816). It allows users to read and write almost any 125 kHz, 134.2 kHz and 13.56 MHz transponder supporting all major technologies from various suppliers like ATMEL, EM, ST, NXP, TI, HID, LEGIC, etc. and many ISO standards such as ISO14443A/B (T=CL), ISO15693, and ISO18092 / ECMA-340 (NFC). The integrated chip card reader is designed for easy integration into various applications.

The readers can be programmed with a script language for autonomous execution of even complex commands like login procedures, increment/decrement functions and many more. The reader supports host communication via USB.

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
- two onboard SAM sockets (Secure Access Module)
- + supports quick centralized (re)configuration over network and over wireless interface with TWN4 CONFIG Card
- + 3D construction data (STEP) available on request

































TECHNICAL DATA

| 125 kHz/134.2 kHz (LF) / 13.56 MHz (HF) Integrated Material: ABS UL94-V0, color: black or white Desktop Reader: 88 mm x 68 mm x 19 mm / 3.46 inch x 2.68 inch x 0.75 inch OEM Board: 76 mm x 62 mm x 11 mm / 3 inch x 2.44 inch x 0.43 inch | | |
|--|--|--|
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| · · | | |
| OEM Boards 76 mm v 62 mm v 11 mm / 2 inch v 2 11 inch v 0 12 inch | | |
| OEM BOARD. 76 MINEX OZ MINEX ELEMENTE SINCH X 2.44 MICH X 0.45 MICH | | |
| 4.3 V - 5.5 V via USB | | |
| 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) | | |
| 5% to 95% non-condensing | | |
| Up to 100 mm / 4 inch, depending on environment and transponder | | |
| Host: USB Full speed (12 Mbit/s), Air: up to 848 kbit/s | | |
| USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01 | | |
| 500,000 hours / Min. 100,000 card insertion cycles | | |
| Approx. 35 g (without housing) / Approx. 140g (with housing and USB Cable) | | |
| ISO/IEC7816 Part 1-4, Class A/B/C (5V, 3V, 1.8V), T=0, T=1 | | |
| | | |
| 5 MHz up to 15 MHz | | |
| 5V, 3V and 1.8V, ISO/IEC7816 Class A/B/C | | |
| 60mA in Class A; 55mA in Class B; 35mA in Class C | | |
| Card present switch / Automatic power on/off / Short-circuit protection | | |
| 2xID-000 (SAM) ID-1 | | |
| 8 pin Sliding Contact Socket, C4/C8 support ID-1 | | |
| ISO14443A: LEGIC Advant¹), MIFARE Classic 1k & 4k EV1²), MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1, MIFARE DESFire EV2²), MIFARE Plus S, X, MIFARE Pro X³), MIFARE Smart MX³), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1, NTAG2xx, PayPass³), SLE44R35, SLE66Rxx (my-d move)³) ISO14443B: Calypso³), Calypso Innovatron protocol³, CEPAS³), HID iCLASS¹), Moneo³), Pico Pass¹) ISO18092 ECMA-340: Sony FeliCa⁵), passive Peer-to-Peer mode - initiator, NFC Tag 2, 3, 4 ISO15693: EM4x33³), EM4x35³), HID iCLASS¹), HID iCLASS SE/SR¹), ICODE SLI, LEGIC Advant, M24LR16/64, SRF55Vxx (my-d vicinity)³), Tag-it, PicoPass¹) LEGIC Prime: LEGIC Prime 125 kHz, 134.2 kHz: AWID, Cardax, CASI-RUSCO, Deister⁶), EM4100, 4102, 4200⁻), EM4050, 4150, 4450, 4550, EM4305⁶), FDX-B, EM4105, HITAG 1⁰), HITAG 2⁰, HITAG S⁰), ICT⁶, IDTECK, Isonas⁶), Keri, Miro, Nedap⁶), PAC, Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX, TITAN | | |
| (EM4050), UNIQUE, ZODIAC All Standard Transponder, G-Prox ⁶ , HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch | | |
| USB | | |
| Windows XP, Vista, Embedded CE ⁸), 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ⁸), iOS ⁸), MAC OS X ⁸) | | |
| | | |

| CERTIFICATION NAME | TWN4 Smartcard LEGIC NFC | | |
|--------------------|---------------------------------|---------------------|--|
| CERTIFICATIONS | ROHS-II compliant, CE, FCC, RED | | |
| ORDER CODE(S) | T4SO-B | OEM Board | |
| | T4SD-FB2BE1 | USB Black | |
| | T4SD-BB2WE1 | USB White | |
| | T4SO-B-P | OEM Board Version P | |
| | T4SD-BB2BE1-P | USB Version P Black | |
| | T4SD-BB2WE1-P | USB Version P White | |

¹⁾UID only ²⁾r/w enhanced security features on request ³⁾r/w in direct chip command mode ⁴⁾NFC Forum Tag 1 not supported ⁵⁾UID + r/w public area ⁶⁾Hash value only ⁷⁾Only emulation of 4100, 4102 ⁸⁾On request ⁹⁾Without encryption

ACCESSORIES

| 7.00=0007.11=0 | | | |
|--|--|--|--|
| 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 | | | |
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