

TWN4 USB FRONT READER LEGIC 42

COMPACT LF/HF/NFC RFID READER/WRITER FOR DIRECT CONNECTION TO PRINTER



TWN4 USB Front Reader LEGIC 42
Top view (inlay customizable)



TWN4 USB Front Reader LEGIC 42
Bottom view (360° mounting possibility)

The new TWN4 USB Front Reader LEGIC 42 integrates RFID (125 kHz, 134.2 kHz and 13.56 MHz) and NFC capabilities into a compact but powerful reader. It can be easily connected to an external USB port. Furthermore, it has a rotatable USB interface, which offers a 360° mounting opportunity, as well as a USB-Hub which can optionally be disabled. Its reduced size combined with excellent read/write performance makes it the perfect reader for various applications including but not limited to print solutions, healthcare applications, single sign-on.

The TWN4 USB Front Reader LEGIC 42 allows users to read and write almost all common worldwide 125 kHz, 134.2 kHz and 13.56 MHz tags and/or labels. It supports all major transponders from various suppliers like ATMEL, EM, ST, NXP, TI, HID etc. and ISO standards like ISO14443A/B (T=CL), ISO15693, ISO18092 / ECMA-340 (NFC).

Special features:

- + multi-frequency RFID reader/writer for 125/134.2 kHz, 13.56 MHz, NFC, Bluetooth Low Energy®
- + powerful SDK for writing apps which are executed directly on the reader
- + encrypted communication (AES128) between card reader and printer available
- + firmware update in the field possible
- + USB-hub „pass through“ on the front side can be deactivated via device driver
- + USB connector on the rear side can be rotated, which offers the possibility of a 360° mounting
- + available with custom inlay and packaging as “ready to sell from stock”
- + onboard 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + direct chip-commands support
- + one onboard SAM socket (Secure Access Module)
- + CCID and PC/SC 2.01
- + TWN4 Upgrade Card for P option available on request
- + supports quick (re)configuration over network and over wireless interface with TWN4 CONFIG Card
- + 3D construction data (STEP) available on request



TECHNICAL DATA

FREQUENCY	125 kHz/134.2 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)
ANTENNA	Integrated
HOUSING	Material: ABS UL94-V0, color: black
DIMENSIONS (L X W X H)	60 mm x 39 mm x 16.5 mm / 2.36 inch x 1.54 inch x 0.65 inch
POWER SUPPLY	4.3 V - 5.5 V via USB
CURRENT CONSUMPTION	RF field on: 250 mA typically + 16 mA (BT)
TEMPERATURE RANGE	Operating: -25 °C up to +65 °C (-13 °F up to +149 °F) Storage: -45 °C up to +70 °C (-49 °F up to +158 °F)
RELATIVE HUMIDITY	5% to 95% non-condensing
READ- / WRITE DISTANCE	LF and HF: Up to 100 mm / 4 inch, depending on environment and transponder / BT: n/a
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), USB Hub: USB Hi-Speed up to 40 MB/s; HF Air: up to 848 kbit/s, BT Air: up to 100 kbit/s
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01
BLUETOOTH LOW ENERGY	Bluetooth V4.1, software upgradable to V4.2; API; standards as GAP, SM, L2CAP, ATT; predefined GATT structure; up to 8 connections; AES128 supported
MTBF	500,000 hours
WEIGHT	Approx. 22 g
SUPPORTED TRANSPONDERS (STANDARD)	<p><u>ISO14443A:</u> LEGIC Advant¹⁾, MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1, MIFARE DESFire EV2²⁾, MIFARE Plus S, X, MIFARE Pro X³⁾, MIFARE Smart MX⁴⁾, MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1, MIFARE Ultralight EV2, NTAG2xx, PayPass⁴⁾, SLE44R35, SLE66Rxx (my-d move)⁴⁾, Topaz</p> <p><u>ISO14443B:</u> Calypso³⁾, Calypso Innovatron protocol³⁾, CEPAS³⁾, HID iCLASS¹⁾, Moneo³⁾, Pico Pass⁴⁾, SRI4K, SRIX4K, SRI512, SRT512</p> <p><u>ISO18092 ECMA-340:</u> NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa⁵⁾, NFC Active and passive communication mode</p> <p><u>ISO15693:</u> EM4x35³⁾, HID iCLASS¹⁾, HID iCLASS SE/SR¹⁾, ICODE SLI, LEGIC Advant¹⁾, M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity)³⁾, Tag-it, PicoPass⁴⁾</p> <p><u>LEGIC Prime:</u> LEGIC Prime <u>125 kHz, 134.2 kHz:</u> AWID, Cardax, CASI-RUSCO, Deister⁶⁾, EM4100, 4102, 4200⁷⁾, EM4050, 4150, 4450, 4550, EM4305⁸⁾, FDX-B, EM4105, HITAG 1⁹⁾, HITAG 2⁹⁾, HITAG S⁹⁾, ICT⁸⁾, IDTECK, Isonas⁸⁾, Keri, Miro, Nedap⁶⁾, PAC, Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX, TITAN (EM4050), UNIQUE, ZODIAC</p>
SUPPORTED TRANSPONDERS (VERSION P)	All Standard Transponders, Cotag, G-Prox ⁶⁾ , HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch
OS SUPPORT	Windows XP, Vista, Embedded CE ⁸⁾ , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ⁸⁾ , iOS ⁸⁾ , MAC OS X ⁸⁾
PERIPHERAL INTERFACES	Male USB type A, female USB type A
CERTIFICATION NAME	TWN4 USB Front Reader LEGIC 42
CERTIFICATION(S)	CE/RED, RoHS-II compliant
ORDER CODE(S)	T4FK-BBFRLM7-P Front Reader-P LEGIC Kit

¹⁾UID only ²⁾r/w enhanced security features on request ³⁾r/w in direct chip command mode ⁴⁾UID only, read/write on request ⁵⁾UID + r/w public area ⁶⁾Hash value only ⁷⁾Only emulation of 4100, 4102 ⁸⁾On request ⁹⁾Without encryption