TWN4 MULTITECH 3 HF

HF RFID READER/WRITER WITH NFC SUPPORT



TWN4 MultiTech 3 HF PCB top view



TWN4 MultiTech 3 HF PCB bottom view

The new TWN4 MultiTech 3 HF integrates RFID (13.56 MHz) and NFC capabilities into a compact but powerful reader. Its reduced size combined with excellent read/write performance makes it the perfect reader for all applications where small size and full performance matters, e.g. print solutions, healthcare applications, driver identification, POS integration and much more. Furthermore, the TWN4 MultiTech 3 HF provides access to most common host interfaces such as USB, serial (TTL) or I2C which are readily accessible through an on-board connector.

The TWN4 MultiTech 3 HF allows users to read and write almost all common worldwide 13.56 MHz tags and/or labels. It supports all major transponders from various suppliers like EM, Fujitsu, ST, NXP, TI, HID etc. and ISO standards like ISO14443A/B (T=CL), ISO15693, ISO18092 / ECMA-340 (NFC).

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
- one onboard SAM socket (Secure Access Module)
- CCID and PC/SC 2.01
- 3 GPIOs
- 3D construction data (STEP) available on request
- supports quick centralized (re)configuration over network and over wireless interface with TWN4 CONFIG Card



































EV Chargers

Access









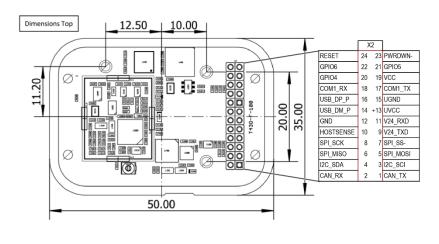


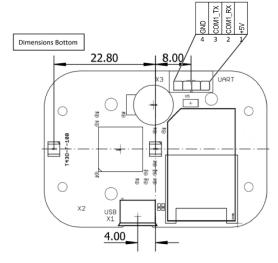
Parking

TECHNICAL DATA

FREQUENCY	13.56 MHz (HF)
ANTENNA	Integrated
DIMENSIONS (L X W X H)	OEM Board (compact reader): 50 mm x 35 mm x 7 mm, maximum diameter < 55 mm.
POWER SUPPLY	4.3 V - 5.5 V via USB; via connector CNB 3.3 V +/- 5%
CURRENT CONSUMPTION	RF field on: 120 mA typically / Sleep: 500 µA typ. / Cyclic Operation: TBD
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)
RELATIVE HUMIDITY	5% to 95% non-condensing
READ- / WRITE DISTANCE	Up to 100 mm / 4 inch, depending on antenna, environment and transponder
TRANSMISSION SPEED	Host: USB Full speed (12 Mbit/s), Serial TTL: up to 115.200 baud; Air: up to 848 kbit/s
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01
MTBF	500,000 hours
WEIGHT	Approx. 7 g
COMPATIBLE PIN HEADER	PTT-112-01-L-D or TMM-112-03-F-D by Samtec
SUPPORTED TRANSPONDERS (STANDARD)	ISO14443A: LEGIC Advant¹, MIFARE Classic 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, Topaz ISO14443B: Calypso³, Calypso Innovatron protocol³, CEPAS³, HID iCLASS¹, Moneo³, Pico Pass⁴, SRI4K, SRIX4K, SRI512, SRT512 ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa⁵, NFC Active and passive communication mode ISO15693:
SUPPORTED TRANSPONDERS (VERSION I)	EM4x33³), EM4x35³), HID iCLASS¹), HID iCLASS SE/SR¹), ICODE SLI, LEGIC Advant¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity)³), Tag-it, PicoPass⁴) Requires external TWN4 SIO Card, All Standard Transponders, HID iCLASS, HID iCLASS SE/SR/SEOS (CSN and Facility Code/PAC)6), HID iCLASS Elite & SE Elite
	Windows XP, Vista, Embedded CE ⁷ , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ⁷ , iOS ⁷ ,
OS SUPPORT	MAC OS X ⁷)
PERIPHERAL INTERFACES	USB, RS232, TTL serial (logic level 3.3 V, CMOS, 5 V tolerant), I ² C, SPI, 3 GPIOs, CAN ⁷), Clock/Data, Wiegand, 1-Wire ⁷)
CERTIFICATION NAME	TWN4 MultiTech 3 HF
CERTIFICATION(S)	RoHS-II compliant, CE/RED, FCC Single Modular Approval, IC
ORDER CODE(S)	T430-F2C0 OEM Board T430-F2C0-I OEM Board Version I

¹¹UID only ²¹r/w enhanced security features on request ³¹r/w in direct chip command mode ⁴¹UID only, read/write on request ⁵¹UID + r/w public area ⁵¹UID + PAC (CSN & Facility Code), r/w on request ¹¹On request







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