TWN4 MULTITECH PANEL LEGIC 42*

125kHz/134.2kHz & 13.56MHz Contactless Reader/Writer

*previously known as TWN4 PANEL LEGIC NFC

Front View

Rear View, Panel not included

Elatec's Vending Machine Kit consists of the TWN4 LEGIC Core Module with an attached antenna (TWN4 Panel LEGIC NFC OEM PCB) in a black rectangular rugged plastic housing. It is ideal for use in vending, kiosk or gaming machines. The housing is rated IP65 from outside and therefore ideal for outdoor usage e.g. in parking systems, EV Chargers etc. The kit comes fully mounted with an USB Type A or a RS232 cable, which can be easily changed due to the flexible connector pinout.

Elatec's TWN4 Panel LEGIC NFC allows users to read and write to almost any 125kHz/134.2kHz and 13.56MHz tags and/or labels – it supports all major transponders from various suppliers like ATMEL, EM, ST, MIFARE NXP, TI, HID, LEGIC, etc. and ISO standards like ISO14443A including ISO14443A-4 (T=CL), ISO14443B including ISO14443B-4 (T=CL), ISO15693, ISO18092 / ECMA-340 (NFC).
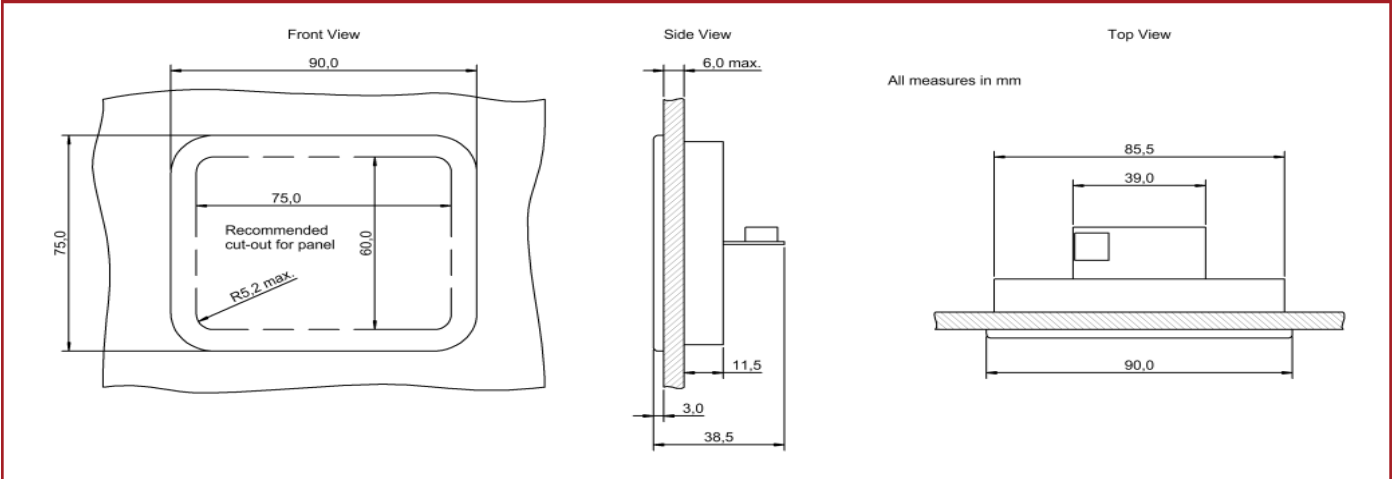
Special Features:

- Powerful SDK for writing Apps which are executed directly on the reader
- Infield Upgradeable
- Direct chip-commands support
- CCID and PC/SC 2.01[1]
- Interfaces:
  USB, RS232, Serial (logical level 3.3V, CMOS 5V tolerant), I²C, SPI[2], Clock/Data[3], Wiegand[3], CAN[2][3],1-Wire[2]
- Dedicated expansion bus for connection of LCD, mass storage, etc.
- 8 GPIOs
- Step Model Data on request

Technical Data[4]

Frequency	125kHz, 134.2kHz (LF) / 13.56MHz (HF)
Antenna	Aircoil (125KHz) and Aircoil PCB (13.56MHz)
Housing	Plastic, black
Power Supply	4.3V..5.5V via USB or RS232; RS232 requires external power supply; via connector CNB 3.3V +/- 5%
Current Consumption	RF field on: 140mA typically
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)
Read- / Write Distance	Up to 100mm / 4inch, depending on antenna and tag
HOST Interface	USB, RS232, serial (logical level 3.3V,CMOS 5V tolerant), I²C, SPI[2], Clock/Data[3], Wiegand[3], CAN[2)3)], 1-Wire[2]
OS Support	Windows XP, Vista, Embedded CE[2] , 7(32-/64-bit), 8, 8.1,10, Linux, Android, iOS[2], MAC OS X[2]
Transmission Speed	HOST: USB: Full speed (12Mbit) – RS232: up to 115.200baud <td>AIR: up to 424kbit/s</td>
Modes of Operation	• USB keyboard emulation – USB virtual COM port – Transparent (direct chip-commands support) • CCID and PC/SC 2.01[1)]
Relative Humidity	5% to 95% non-condensing
Supported Transponders	**Standard** • 125kHz / 134.2kHz: 4100, 4102, 4200[10], 4050, 4150, 4450, 4550, AWID, CASI-RUSCO, HITAG 1[11], HITAG 2[11], HITAG S[11], Keri, Miro, Pyramid, TIRIS/HDX, UNIQUE, FDX-B, Q5, TITAN, T55x7, ZODIAC <u>Optionally, in consideration:</u> 4305, Cardax, IDTECK • 13.56MHz: LEGIC Advant, LEGIC Prime • ISO14443 A+B: compatible to part 4, MIFARE DESFire EV1, MIFARE Plus, MIFARE SmartMX, my-d move[7], PayPass, MIFARE Classic EV1[9], MIFARE Ultralight EV1[9], MIFARE Ultralight C, NTAG2xx[9], HID iCLASS[5] • ISO15693: EM4035[7], Tag-it, my-d vicinity[7], ICODE SLI, M24LR16/64, PicoPass[5], HID iCLASS[5] • ISO18092 / NFC: NFCIP-1: NFC Forum Tag Type 2-4, Sony FeliCa[6] **Version P** Standard+Cotag,G-Prox[8], HID (Prox,Prox II,Duo Prox II,ISO Prox II,Micro Prox,ProxKey),Honeywell NexWatch,Indala,ioProx
Certifications	CE, R&TTE, RoHS-II compliant
MTBF	500.000 hours

		USB (0.45m/17.7inch)	RS232 (2.0m/78.7inch)
Order Code	Standard: T4PO-B Version P: T4PO-B-P	Standard: T4PA-BB6B Version P: T4PA-BB6B -P	T4PA-BR2B T4PA-BR2B-P
Description	TWN4 MultiTech Panel LEGIC 42 OEM PCB (46x56x38mm) (1.81x2.20x1.50inch)	TWN4 MultiTech Panel LEGIC 42 OEM PCB including housing/cable	
Weight	Approx. 15g	Approx. 150g	

[1]In Preparation [2]On Request Only [3]External Interface Required [4]Target Specification [5]UID Only [6]Encryption Not Supported [7]UID/PUPI Only, Read/Write On Request [8]Hash Value Only [9]r/w enhanced security features on request

Dimensions

Front View / Side View / Top View — All measures in mm