

ELATEC

RFID Systems

RFID Reader TWN4 125kHz+13.56MHz, RS232

The TWN4 MultiTech 2 family of contactless RFID readers and modules allows users to read and write to almost any LF and HF tags and labels. All products support NFC and, optionally, Bluetooth Low Energy (BLE). In addition, they are also compatible with the two most commonly used smartphone operating systems, Android and iOS, which gives the option to integrate them in mobile identification applications.

The desktop readers are available as Plug & Play devices that can be easily customized (i.e. inlay and housing color), whereas the PCB modules offer a large amount of interfaces and a perfect form factor for an easy and quick integration in any host device. This broad range of product features makes the TWN4 MultiTech 2 family an excellent solution for almost every project.



Key features of the TWN4 MultiTech 2 LF and HF desktop reader include a powerful SDK for writing apps that are executed directly on the reader, the possibility to upgrade the firmware in the field and a direct chip-commands support. Additionally, the reader can simultaneously read more than 60 RFID technologies from low (LF) and high frequency (HF) bands, including NFC. This gives the option to select as many of the technologies required instead of being forced to select just a few ones.

Key features:

- Possibility to read more than 60 RFID technologies
- Supports two RFID frequencies: 125 kHz and 13.56 MHz
- Supports Apple VAS and ECP 2.01)
- Powerful SDK for writing apps which are executed directly on the reader
- Firmware update in the field possible
- On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- Direct chip-commands support
- CCID and PC/SC 2.01
- OS Support: Android, iOS, Linux, Mac OS X, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Embedded



Technical Description

Functionality & Operation

| | |
|--------------------------|-------------------------|
| Communication interface | RS232 |
| Frequency | 125 kHz, 13.56 MHz |
| Antennas, Antenna inputs | integrated RFID antenna |
| Reading/writing distance | 10cm |

Electrical

| | |
|--------------|---------------|
| Power Source | 4,3 V - 5,5 V |
|--------------|---------------|

Mechanical

| | |
|--------------|--|
| Color | black |
| Body housing | ABS plastic |
| Dimensions | Width: 56mm, Height: 18mm Length: 88mm |
| Weight | 116g |

Environment

| | |
|------------------------------------|-------------|
| Operating temperature | -25 to 70°C |
| Relative humidity (non-condensing) | 5 to 95% |
| Storage temperature | -45 to 75°C |

Others

| | |
|----------------|---|
| Certifications | RoHS-II compliant, CE, FCC, IC, ACA, ACMA |
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