

# TWN4

## MultiTech OEM PCBs

DocRev1, May 13, 2016



Elatec GmbH

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# 1 Introduction

An OEM PCB combines all components including antennas and core module, which are required to build a full functional device. An OEM PCB consists of a carrier board, where all other parts are placed. Only cable and power supply is required to bring device into operation.

There are various OEM PCBs available:

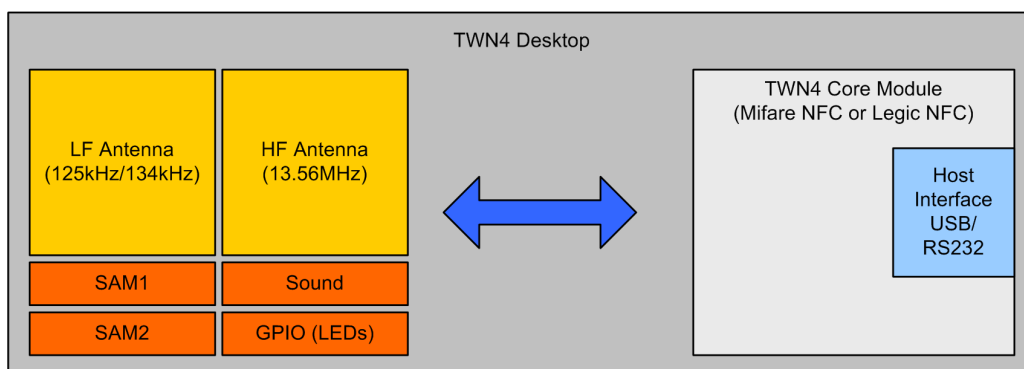
- TWN4 MultiTech OEM PCB (Desktop, former TWN4 MIFARE NFC OEM PCB)
- TWN4 MultiTech LEGIC 42 OEM Board (Desktop, former TWN4 LEGIC NFC OEM PCB)
- TWN4 MultiTech LEGIC 45 OEM Board
- TWN4 MultiTech SmartCard OEM PCB
- TWN4 MultiTech SmartCard LEGIC 42 OEM PCB
- TWN4 MultiTech Panel OEM Board (Panel, former TWN4 MIFARE NFC OEM PCB)
- TWN4 MultiTech Panel LEGIC 42 OEM Board (Panel, former TWN4 LEGIC NFC OEM PCB)

## 2 TWN4 MultiTech OEM PCB

Here is a picture of a TWN4 MultiTech OEM PCB:



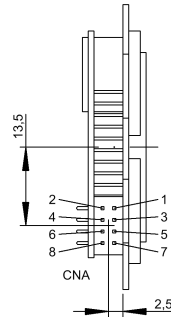
The block diagram looks as follows:



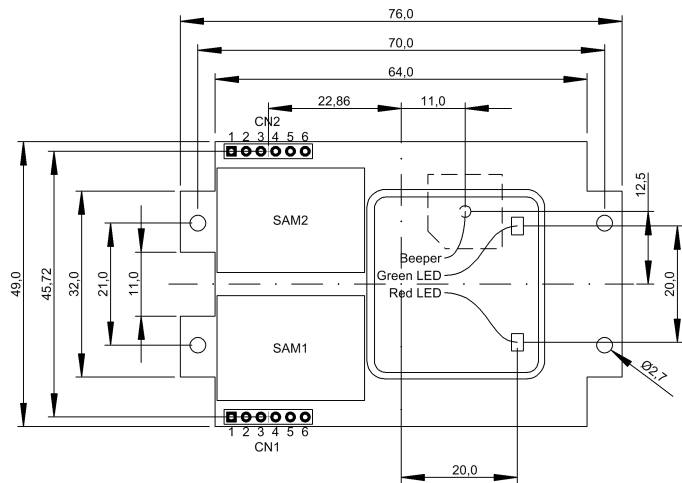
### 2.1 Dimensions & Pinout

The dimensions and pinout of TWN4 MultiTech OEM PCB as follows.:

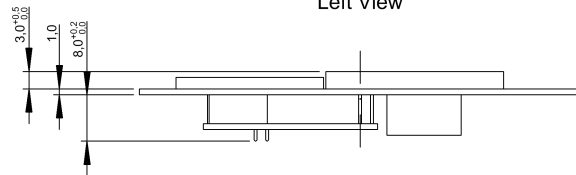
Bottom View



Top View



Left View



All measures in mm

| Connector CNA* |                                |
|----------------|--------------------------------|
| Pin            | Signal                         |
| 1              | USB/Supply Ground (black Wire) |
| 2              | USB Data+ (green Wire)         |
| 3              | USB/Supply 5V (red Wire)       |
| 4              | USB Data- (white Wire)         |
| 5              | RX232 RxD (Input)              |
| 6              | J2-1**                         |
| 7              | RX232 TxD (Output)             |
| 8              | J2-2**                         |

\* Hirose DF11 series, 2mm pitch

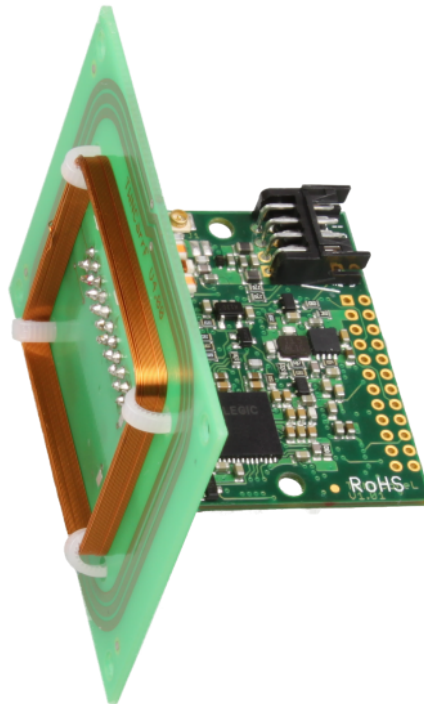
\*\* RS232 operation is achieved by either closing jumper J2 on the PCB or by connecting pin 6 and pin 8 of CNA.

| Connector CN1 |                               |
|---------------|-------------------------------|
| Pin           | Signal                        |
| 1             | Supply Ground                 |
| 2             | 5V Supply                     |
| 3             | Logic Input RxD (active low)  |
| 4             | Logic Output TxD (active low) |
| 5             | GPIO2                         |
| 6             | GPIO3                         |

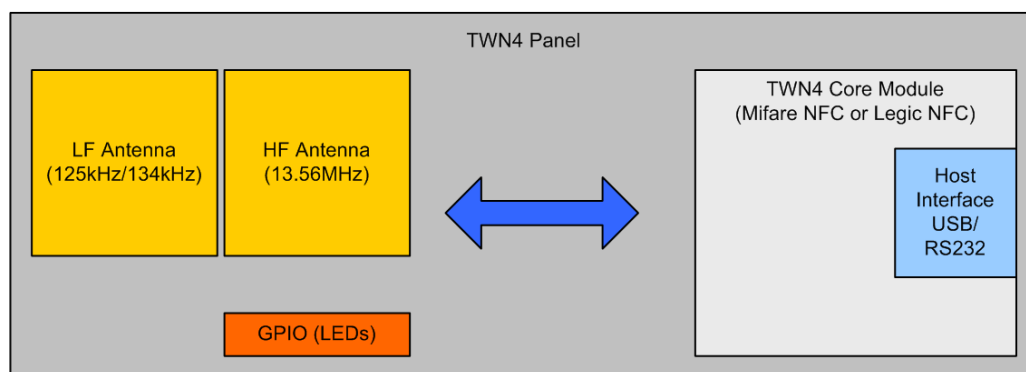
| Connector CN2 |                        |
|---------------|------------------------|
| Pin           | Signal                 |
| 1             | Supply Ground          |
| 2             | 3.3V Supply            |
| 3             | SCL (I <sup>2</sup> C) |
| 4             | SDA (I <sup>2</sup> C) |
| 5             | RESET (active low)     |
| 6             | POWERDOWN (active low) |

### 3 TWN4 MultiTech Panel OEM PCB

Here is a picture of TWN4 MultiTech Panel OEM PCB:

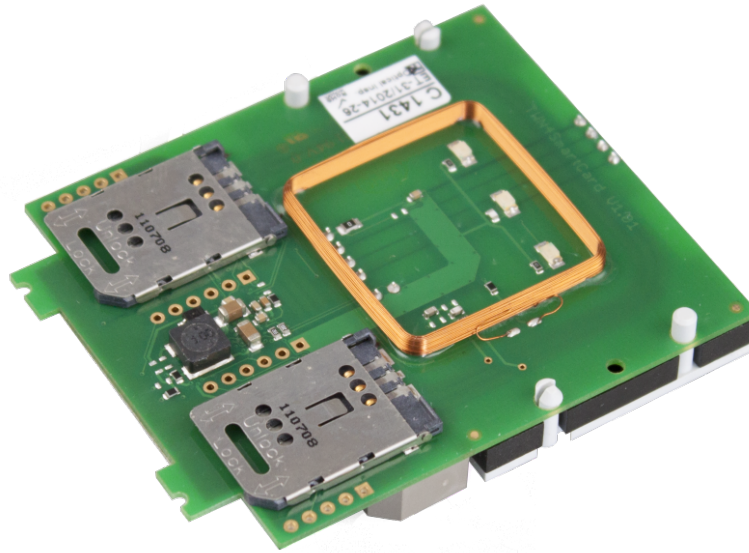


The block diagram looks as follows:

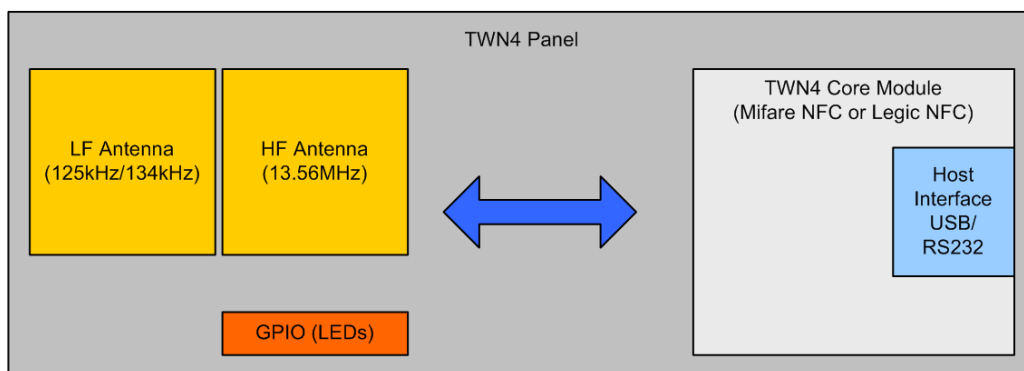


## 4 TWN4 MultiTech SmartCard OEM PCB

Here is a picture of TWN4 MultiTech SmartCard OEM PCB:



The block diagram looks as follows:



## 5 Disclaimer

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