

TWN4

MultiTech OEM PCBs

DocRev1, May 13, 2016



Elatec GmbH

Contents

1 Introduction	3
2 TWN4 MultiTech OEM PCB	4
2.1 Dimensions & Pinout	4
3 TWN4 MultiTech Panel OEM PCB	6
4 TWN4 MultiTech SmartCard OEM PCB	7
5 Disclaimer	8

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:

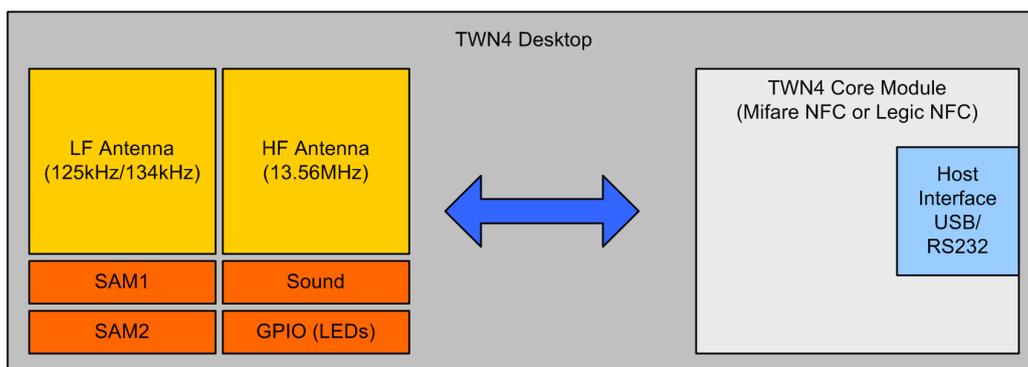
- TWN4 MultiTech OEM PCB (Desktop, former TWN4 MIFARE NFC OEM PCB)
- TWN4 MultiTech LEGIC 42 OEM Board (Desktop, former TWN4 LEGIC NFC OEM PCB)
- TWN4 MultiTech LEGIC 45 OEM Board
- TWN4 MultiTech SmartCard OEM PCB
- TWN4 MultiTech SmartCard LEGIC 42 OEM PCB
- TWN4 MultiTech Panel OEM Board (Panel, former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

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**

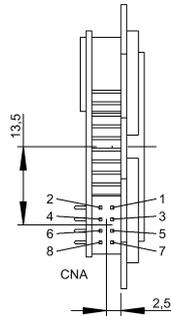
* Hirose DF11 series, 2mm pitch

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

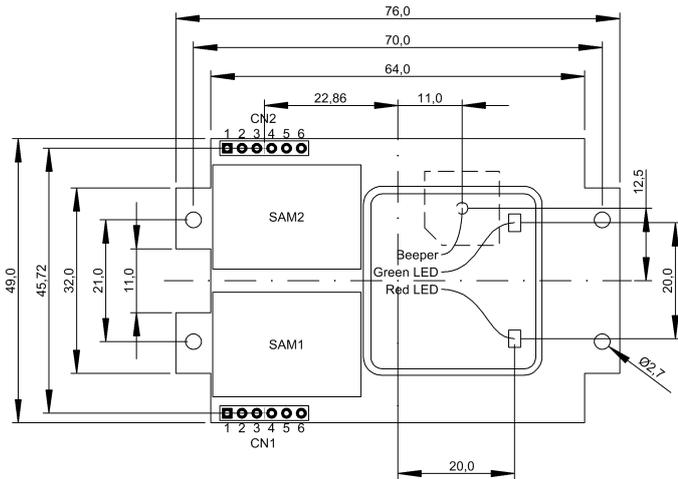
Connector CN1	
Pin	Signal
1	Supply Ground
2	5V Supply
3	Logic Input RxD (active low)
4	Logic Output TxD (active low)
5	GPIO2
6	GPIO3

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

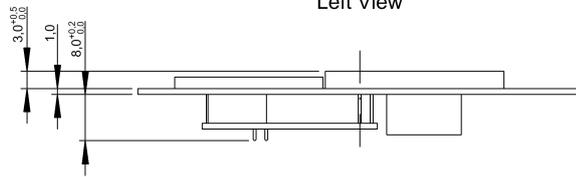
Bottom View



Top View



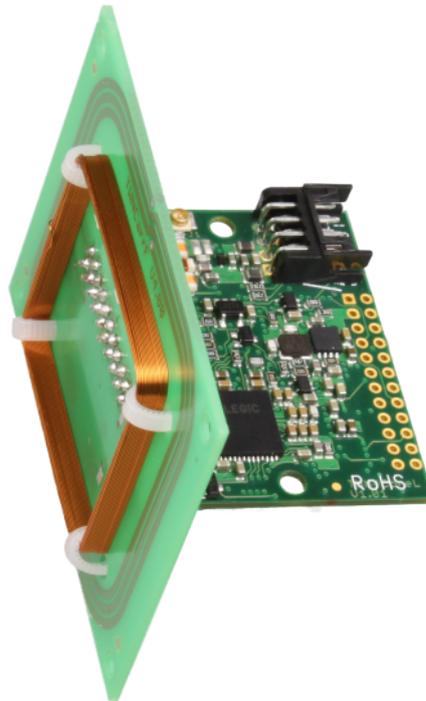
Left View



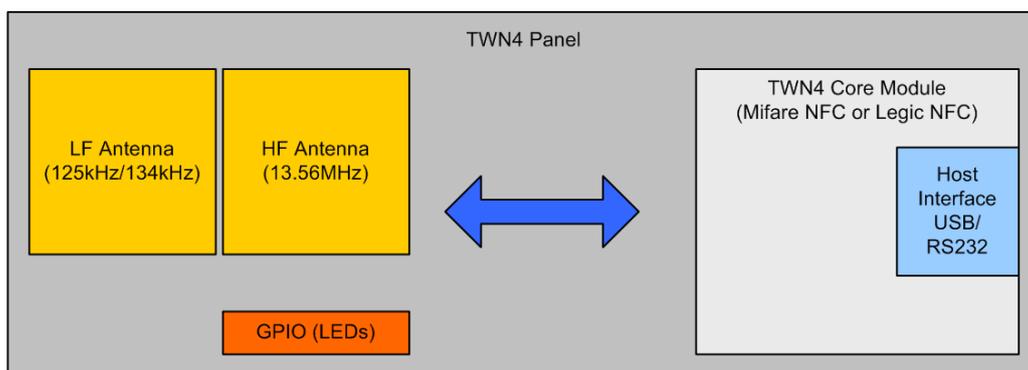
All measures in mm

3 TWN4 MultiTech Panel OEM PCB

Here is a picture of TWN4 MultiTech Panel OEM PCB:

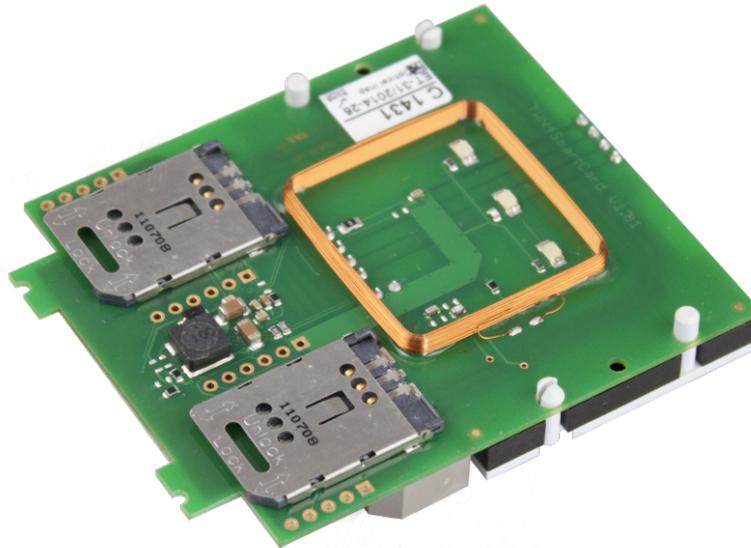


The block diagram looks as follows:

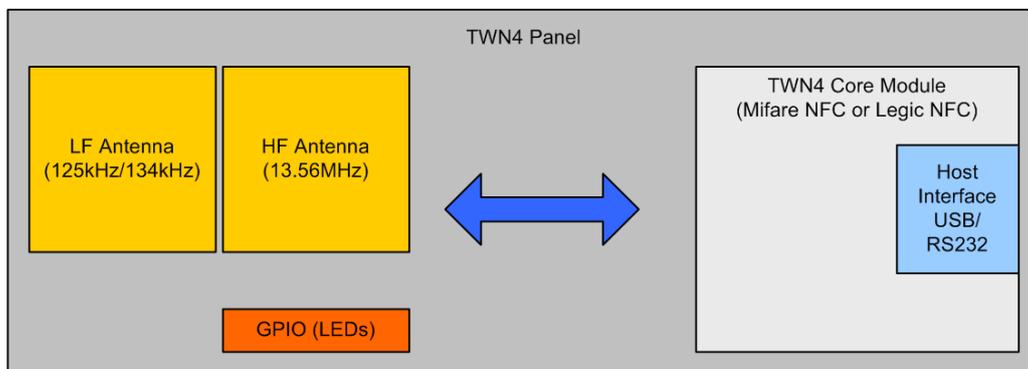


4 TWN4 MultiTech SmartCard OEM PCB

Here is a picture of TWN4 MultiTech SmartCard OEM PCB:



The block diagram looks as follows:



5 Disclaimer

Elatec reserves the right to change any information or data in this document without prior notice. The distribution and the update of this document is not controlled. Elatec declines all responsibility for the use of product with any other specifications but the ones mentioned above. Any additional requirement for a specific custom application has to be validated by the customer himself at his own responsibility. Where application information is given, it is only advisory and does not form part of the specification.

All referenced brands, product names, service names and trademarks mentioned in this document are the property of their respective owners.