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Automatiskt genererad beskrivningOpenFly Telemetry ©  
Inertial navigation digital sensor board   
- OFT001 v1**

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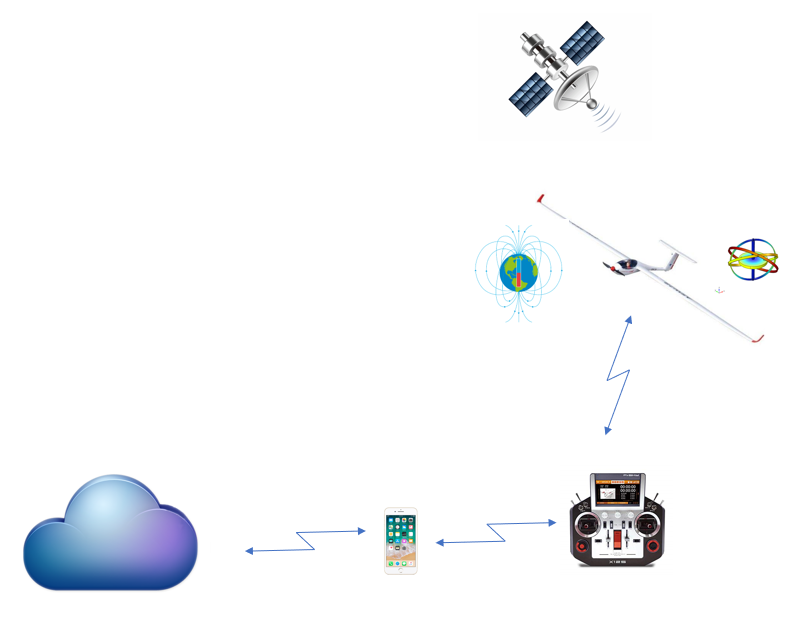
# **Scope**

This document describes the OFT001 v1 sensor hardware module part of the OpenFly Telemetry project. OpenFly Telemetry involves several more commercial and proprietary hardware modules which are only to briefly highlighted in this document. The OFT001 v1 boards provides sensor data for inertial navigation such as: GPS data, Barometric data, ambient temperature, 3D accelerometer- , gyrometer-, and 3D magnetometer data.

# **OpenFly Telemetry overview**

OpenFly Telemetry is an open source project aiming to provide telemetry and navigation capabilities for model airplanes and drones through open source hardware and software. It uses various on-board sensor capabilities such as GPS, Accelerometers, Gyroscopes, Magnetometers, Pitot tubes, temperature sensors, battery voltage and current sensors, RPM sensors, etc. to provide the operator or algorithms with data for manual or automated corrective actions. The algorithms are sometimes autonomous and resides in the model, are sometimes on ground with the receiver or nearby connected devices or are sometimes even in distant clouds.

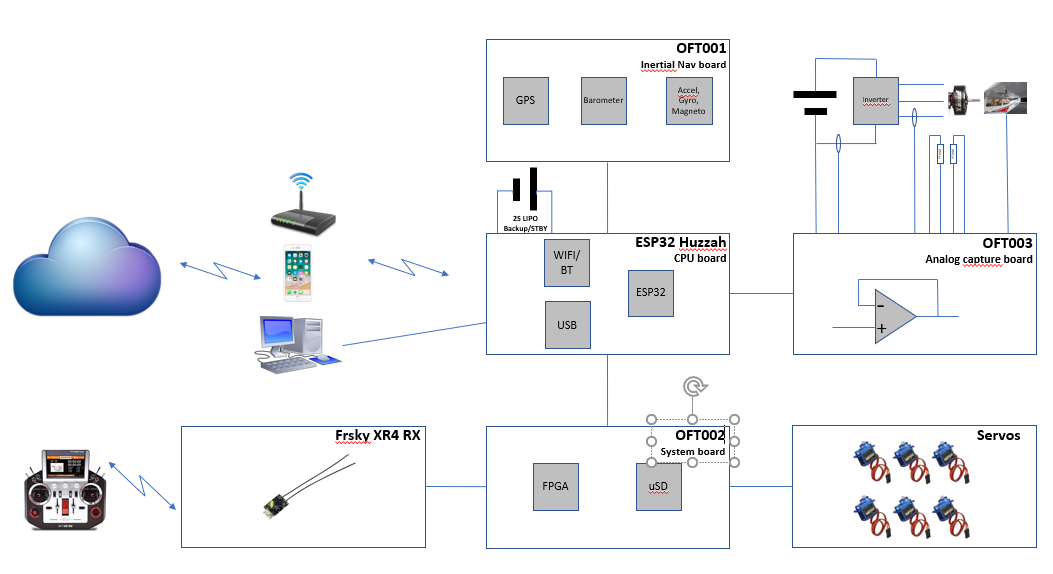
The OFT modules can also be placed in the module base of the transmitter to enrich the transmitter awareness, e.g. Position, direction and additional communication capabilities such as Bluetooth and WIFI.



**Figure 1:** OpenFly Telemetry basic concept

# **OpenFly Telemetry (OFT) system description**

OFT has two basic components: the Adafruit Huzzah32 ESP32 feather processor board and the OFT system board. The ESP32 processor board obviously holds the software and algorithms for telemetry and navigation. The system board interfaces with the radio receiver and its telemetry and servo busses. The system is modular, and you can compose your choice of capabilities by stacking various OFT boards on top of each other.



**Figure 2:** OpenFly Telemetry system view

OFT is based out of the Ada fruit ESP32 Huzzah feather processor board. This board hosts an ESP32 processor with two 32-bit general Xtensa processor cores, two float processors and one ultra-low-power co-processor from Espressif (https://www.espressif.com/). Furthermore, the ESP32 board provides wireless connectivity through Bluetooth and WIFI as well as ensuring continuous power supply through an optional 2S designated LIPO, which could temporarily feed the servos and the receiver- should the main supply drain.

The commercial Huzzah32 ESP32 mother board connects to several telemetry acquisition boards in mother-daughter board stacked configurations.

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**Figure 3:** Ada fruit ESP32 Huzzah feather board

For the on-board use cases (as opposed to the TX bay use case), the bottom most shield in the stack holds the OFT System board. The system board has an FPGA that connects to the radio receiver through the S.PORT for telemetry data, and the SBUS for servo output. The FPGA will allow the ESP32 processor to mix in servo corrections from the processor, transmitting upstream telemetry data, as well as receiving upstream telemetry and servo information from the transmitter.

The system board interconnects with the radio control receiver through its S.PORT and SBUS.



**Figure 4:** Frsky XR4 2.4 GHz MIMO CDMA receiver with S.PORT- (telemetry)   
 and SBUS (Servos) connections

# **The OFT001 v1 Inertial navigation board**

The OFT001 v1 Inertial navigation board captures navigational data, such as GPS positioning, 3D acceleration data, 3D Gyroscopic data, 3D Magnetic data, Barometric pressure and Temperature. Those data are provided to the Huzzah32 ESP32 processor card (and any other stacked shield cards) through I2C and RS232. The data will be filtered, processed and transferred downstream by the ESP32 card and the OFT System card FPGA. It is still to be seen if we can/will implement a high-performance Inertial navigation fuse fixed point Kalman filter in the FPGA, or if it is better done in SW?

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**Figure 5:** OFT001 v1 Inertial navigation card overview

The OFT001 v1 card has an L80-M39 GPS with a built-in patch antenna, and an optional connector for an external 50 Ohm active GPS antenna; an MPU-9250 3D axis Accelerometer, Gyroscope and Magnetometer; and a BMP280 Barometric pressure- and temperature sensor. The communication with these sensors have been segmented so that the MPU runs on its own high speed I2C channel, allowing fast updates and integration cycles by the CPU or possibly directly point to point connection to the OFT System card FPGA; the BMP280 is less latency critical, and potentially shares an I2C channel with other devices in the stack; while the GPS communication happens over an RS232 serial channel using the NMEA protocol.

There is one green LED indicator for GPS lock, one orange LED indictor for External GPS antenna use, and an RGB LED for generic system status indication driven from the ESP32 CPU board. There are also two push buttons: one which is connected to the overall system reset, and another multi-purpose push button intended for system calibration activities.

It is important that OFT001 v1 sits on the top of the mother-daughter board stack (unless an external GPS antenna is used) to achieve a good GPS signal.

Cupper layers have been kept out from the ESP32 Bluetooth and WIFI PCB antennas to not deteriorate the signal strength from those.

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**Figure 6:** OFT001 v1 3D simulation – Front to the right

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beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3OQAAkpIAAgAAAAM3OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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X71JSr1oAHTNZ8sZDH1rTNVJ+AcUkMhqKXsambrUE33R9albjeww4NJ0pR0pGqyRKXFIOtKKACjFBpO1ABSMuaU9PxoFAFWa3Dg8Vl3FoUPArdaqVwPlP0pAYZGDTasXIAc4H+eKr0gHA0hFIKcaYACc1bgGf/11TWrsXSgCyh29O1SrPjvUA6UpoAs+fhetU55WHOacelQy/dNAEDzk96iMhNMam0AOzSiminLSAsQ25k6dK1Le2CduagtQPLPHatFelMByrgU6kFLTAUD1pSM02nCgBCMUlONNoAKXNJRQAUUUUAFFFFABRRSjqKAHxpuNXYIMsBUEPT8a1LQDcOKALdrb4xxWlGmBUUA4H0qytMBQKWiigAooooA//9k=)

**Figure 7:** OFT001 v1 3D simulation – Front to the upper left

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beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzNQAAkpIAAgAAAAMzNQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 8:** OFT001 v1 3D simulation – Back view

## **OFT001 v1 pin-out**

|  |  |  |  |
| --- | --- | --- | --- |
| **OFT001 12 pin header (J2)** | **ESP32 HUZZAH 12 pin header (JP3)** | **ESP32 silicon** | **Comments** |
| 1 - N/C | VBAT | - | N/C |
| 2 - N/C | EN | - | N/C |
| 3 - N/C | VBUS | - | N/C |
| 4 – RED LED | IO13\_A12 | 13 - IO13/A2\_6 | Red system status led |
| 5 – BLUE LED | IO12\_A11 | 14 – IO12/A2\_5 | Blue system status led |
| 6 – GREEN LED | IO27\_A10 | 12 – IO27/A2\_7 | Green system status led |
| 7 - N/C | IO33\_A9 | 9 - IO33/A1\_5 | N/C |
| 8 - N/C | IO15\_A8 | 23 – IO15/A2\_3 | N/C |
| 9 - N/C | IO32\_A7 | 8 – IO32/A1\_4 | N/C |
| 10 - N/C | IO14\_A6 | 13 – IO14/A2\_6 | N/C |
| 11 - I2C\_0\_SCL\_3V | SCL | 36 – IO22 | Common non-critical I2C |
| 12 - I2C\_0\_SDA\_3V | SDA | 37 – IO23 | Common non-critical I2C |

**Table 1:** J2 Pin-out

|  |  |  |  |
| --- | --- | --- | --- |
| **OFT001 16 pin header (J3)** | **ESP32 HUZZAH 16 pin header (JP1)** | **ESP32 silicon** | **Comments** |
| 1 – INT\_0 | IO21 | 33 - IO21 | Interrupt from MPU9250 |
| 2 - I2C\_1\_SDA\_3V | IO17 | 28 - IO17 | Critical MPU I2C |
| 3 - I2C\_1\_SCL\_3V | IO16 | 27 - IO16 | Critical MPU I2C |
| 4 - N/C | MISO | 31 - IO19 | N/C |
| 5 - N/C | MOSI | 30 - IO18 | N/C |
| 6 - N/C | SCK | 29 - IO5 | N/C |
| 7 – CALIB | A5\_IO4 | 26 - IO4/A2\_2 | System calibration button |
| ~~8 - UART\_1\_CLIENT\_RXD~~  8 - N/C | A4\_IO36 | 4 - IO36/A1\_0 | ~~L80-M39 GPS UART (NMEA)~~  **Shall not be connected – moved to pin 11, See errata ERROFT001-3** |
| 9 - UART\_1\_CLIENT\_TXD | A3\_I39 | 5 – IO39/A1\_3 | L80-M39 GPS UART (NMEA).  Translates to Huzzah32 RXD |
| 10 – N/C | A2\_I34 | 6 – I34/A1\_6 | N/C |
| 11 – UART\_1\_CLIENT\_RXD | A1\_DAC1 | 10 – IO25/DAC1/A2\_8 | L80-M39 GPS UART (NMEA)  Translates to Huzzah32 TXD |
| 12 – N/C | A0\_DAC2 | 11 – IO26/DAC2/A2\_9 | N/C |
| 13 – GND | GND | - | GND from ESP32 motherboard |
| 14 – N/C | N/C | - | N/C |
| 15 - +3.3V (VDD) | +3.3V | - | 3.3V max 120 mA from ESP32 motherboard (rated for max ???) |
| 16 – RESET | RESET | 3 – EN | 2-Way reset |

**Table 2:** J3 Pin-out

|  |  |
| --- | --- |
| **OFT001 Ext GPS Ant. (J1)** | **Comments** |
| 1 – AGND | External active GPS antenna ground with VDD DC applied for power feed |
| 2 – EXTANT | External active GPS antenna signal with + |

**Table 3:** J1 Pin-out

## **OFT001 v1 addressing**

|  |  |  |  |
| --- | --- | --- | --- |
| **I2CBus** | **Addr** | **Function** | **Comments** |
| 0 | 0x77 (0x761) | BME280 |  |
| 1 | 0x68 (0x692) | MPU9250 |  |

1. Alternative address if NULL resistor R4 is mounted (not default)
2. Alternative address if NULL resistor R7 is mounted (not default)

**Table 4:** I2C busses and addressing

## **OFT001 v1 operating specifications**

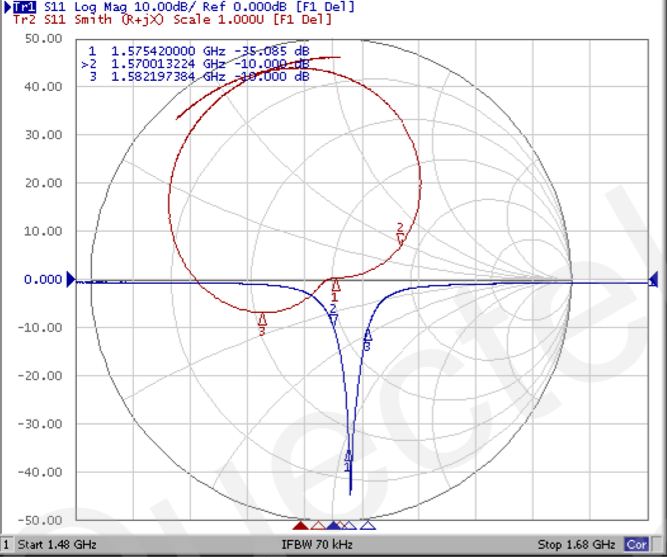
### Operational conditions:

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Nom** | **Max** | **Min** |
| Voltage | 3.3 V | 3.6 V | 3.0 V |
| Current | 30 mA + | 120 mA + | - |
| Power dissipation | 100 mW | 400 mW | - |
| Ambient temp | - | 85 degC | -40 degC |

**Table 5:** Operating specifications

### GPS antenna operational conditions:

The built in GPS patch antenna provides the following characteristics (probably not really true with the limited ground plane applied!?):



**Figure 9:** OFT001 v1 built in GPS antenna characteristics

Following external GPS antenna characteristics applies:

|  |  |
| --- | --- |
| **Parameter** | **Value** |
| DC feed: | 3.6V – 2.5V |
| DC feed current: | <??? |
| Center frequency: | 1575.42MHz |
| Band width: | >5MHz |
| VSWR: | <2 (Typ.) |
| Polarization: | RHCP or Linear |
| Noise figure: | <1.5dB |
| Gain (antenna): | >-2dBi |
| Gain (embedded LNA): | 20dB (Typ.) |
| Total gain: | >18dBi (Typ.) |

**Table 6:** External GPS antenna operating specifications

## **OFT001 v1 P1A schematics**

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UUAFFFFABRRRQAUUUUAFFFFAH//Z)

**Figure 10:** OFT001 v1 P1A circuit schematics

## **OFT001 v1 - third party data sheets**

### **L80-M39 GPS receiver:**

<http://docs-emea.rs-online.com/webdocs/147d/0900766b8147dbf2.pdf>

BMP280 Barometric pressure sensor:  
<https://www.bosch-sensortec.com/media/boschsensortec/downloads/datasheets/bst-bmp280-ds001.pdf>

### **MPU9250 9-Axis Accelerometer, Gyroscope and Magnetometer:**

<http://43zrtwysvxb2gf29r5o0athu-wpengine.netdna-ssl.com/wp-content/uploads/2015/02/PS-MPU-9250A-01-v1.1.pdf>

### **TRI-color system status LED:**

<https://docs.broadcom.com/docs/AV02-4194EN>

### **GPS status LEDs:**

<https://docs-emea.rs-online.com/webdocs/156b/0900766b8156b2c9.pdf>

## **OFT001 v1 PCB implementation**

KICAD 5.1.4 has been used to develop the schematics and PCB design. OFT001 v1 relies on a 4-layer FR4 1.6 mm PCB with a minimum of 6 mil inch trace width- and spacing, and a tolerance of 10%. Minimum via drills is 0.3 mm.

### PCB Stack-up

The design is tuned for the PCB stack-up used by PCBway (https://www.pcbway.com/orderonline.aspx)

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**Figure 11:** OFT001 v1 – 4-layer PCB stack-up

### Front/top Signal Cupper layer

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beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 12:** OFT001 v1 - Front/top Signal Cupper layer

### Back/bottom Signal CU layer

![En bild som visar elektronik, krets

Automatiskt genererad beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5OAAAkpIAAgAAAAM5OAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 13:** OFT001 v1 - Back/bottom Signal CU layer

### Top/front embedded GND CU layer

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beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2NAAAkpIAAgAAAAM2NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 14:** OFT001 v1 - Top/front embedded GND CU layer

### Back/bottom embedded VDD/3.3V CU layer

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Automatiskt genererad beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyNgAAkpIAAgAAAAMyNgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 15:** OFT001 v1 - Back/bottom embedded VDD/3.3V CU layer

### Various user technical meta data layers

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beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NQAAkpIAAgAAAAM3NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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6EEH6GgBtFFOSKSRXZEZljXc5AyFGQMn0GSB9SKAG0UUUAFFOkikiYLKjIxUMAwwcEZB+hBB+hptABRTkikkV2RGZY13OQMhRkDJ9BkgfUim0AFFFOkikiYLKjIxUMAwwcEZB+hBB+hoAbRRTkikkV2RGZY13OQMhRkDJ9BkgfUigBtFFFABRTpIpImCyoyMVDAMMHBGQfoQQfoabQAUVJHbTy28s8UMjww482RUJWPJwMntk9M1HQAUUU6SKSJgsqMjFQwDDBwRkH6EEH6GgBtFFOSKSRXZEZljXc5AyFGQMn0GSB9SKAG0UUUAFFOlikhmeKZGjkRiro4wVI6gjsabQAUU4RSGFpQjGNWCs4HAJzgE+pwfyNNoAKKKdLFJDM8UyNHIjFXRxgqR1BHY0ANoopwikMLShGMasFZwOATnAJ9Tg/kaAG0UUUAFFOlikhmeKZGjkRiro4wVI6gjsabQAUU4RSGFpQjGNWCs4HAJzgE+pwfyNNoAKKKdLFJDM8UyNHIjFXRxgqR1BHY0ANooqT7NP9k+1eTJ9n3+X52w7N+M7c9M45xQBHRRRQAUU6WKSGZ4pkaORGKujjBUjqCOxptABRThFIYWlCMY1YKzgcAnOAT6nB/I02gAoop0sUkMzxTI0ciMVdHGCpHUEdjQA2iinCKQwtKEYxqwVnA4BOcAn1OD+RoAbRRToopJpkihRpJHYKiIMliegA7mgBtFFFABRTjFIIVlKMI2YqrkcEjGQD6jI/MU2gAop0UUk0yRQo0kjsFREGSxPQAdzTaACiinGKQQrKUYRsxVXI4JGMgH1GR+YoAbRRToopJpkihRpJHYKiIMliegA7mgBtFFFABRUn2af7J9q8mT7Pv8vzth2b8Z256Zxzio6ACinRRSTTJFCjSSOwVEQZLE9AB3NNoAKKKcYpBCspRhGzFVcjgkYyAfUZH5igBtFFOiikmmSKFGkkdgqIgyWJ6ADuaAG0UUUAFFOMUghWUowjZiquRwSMZAPqMj8xTaACinRRSTTJFCjSSOwVEQZLE9AB3NNoAKKKcYpBCspRhGzFVcjgkYyAfUZH5igBtFFOiikmmSKFGkkdgqIgyWJ6ADuaAG0UUUAFFOeKSNUZ0ZVkXchIwGGSMj1GQR9QabQAUU6OKSVisSM7BSxCjJwBkn6AAn6Cm0AFFFSSW08VvFPLDIkM2fKkZCFkwcHB74PXFAEdFFOjiklYrEjOwUsQoycAZJ+gAJ+goAbRRRQBpap/yDtG/68m/9KJqza0tU/wCQdo3/AF5N/wClE1ZtABRTo4pJWKxIzsFLEKMnAGSfoACfoKbQAUUU54pI1RnRlWRdyEjAYZIyPUZBH1BoAbRRTo4pJWKxIzsFLEKMnAGSfoACfoKAG0UUUAFFOeKSNUZ0ZVkXchIwGGSMj1GQR9QabQAUU6OKSVisSM7BSxCjJwBkn6AAn6Cm0AFFFOeKSNUZ0ZVkXchIwGGSMj1GQR9QaAG0UU6OKSVisSM7BSxCjJwBkn6AAn6CgBtS2sAuLlYmkWIHOWcgAYGe5Az6ZI57ioqKTvbQTu1oX7uIkxRKYYoURyg+0JJkgbiSV/iPAHAzhR2qVJDJaBr2W0aEwMqgInmhlUhFOBuHIByeMdTzis+a2ntvL+0QyReagkj8xCu9D0YZ6g+tR1n7O6sZOldJM1EvLWWyuVaKSOQWixqPOG0kMnRdvcgsef73rmnXjQrFdXaXEUjah0hUndFlg7buOxGB65zWWkUkiuyIzLGu5yBkKMgZPoMkD6kU2l7FJ3X9f1Yn2EU7p/1p/ka/h64NrLfzK4jZLJyrHHDZXHX3xRcXvm291C0sbRm2hkUccy/JubPduXyevr0qnZ/8et//ANe4/wDRqVWkikiYLKjIxUMAwwcEZB+hBB+hqfZKVRyfl+jJ9jGVWU35fhZm/FqALW8T3K+UslqmCwwEMeJFP+zkDI6Z61z1FOSKSRXZEZljXc5AyFGQMn0GSB9SKunTUL2NKdJU72G0UUVqbFvSv+QzZf8AXxH/AOhCqlXdOiki1yxWVGRjNEwDDBwSCD9CCD9DVKoXxv0X6ma/iP0X6hRTkikkV2RGZY13OQMhRkDJ9BkgfUim1ZoFFFOkikiYLKjIxUMAwwcEZB+hBB+hoAbRRTkikkV2RGZY13OQMhRkDJ9BkgfUigBtFFFABRTpIpImCyoyMVDAMMHBGQfoQQfoabQAUU5IpJFdkRmWNdzkDIUZAyfQZIH1IptABRRUlxbT2dw0F3DJBMmN0cqFWGRkZB9jQBHRRTkikkV2RGZY13OQMhRkDJ9BkgfUigBtFFFABRWhF4f1maFJYdIvpI3UMjpbOQwPQg45FFAGfRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpap/yDtG/68m/9KJqza0tU/wCQdo3/AF5N/wClE1ZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaeiW0d295BNcLbI1vzK/RcSIfUfSpbm3jtMwxXFrbB1++wkd5FPcPsxg8jK4BHXNNNqLbS28uPfPcW4Mn+kJlBvDj93977qqc9gT6VBpswYm0mJMcp4DTKkaHHLHcrAHHcYPp1rjd5NzT07afecDvJymnp20+/8A4cj+xwf9BK1/75l/+Io+xwf9BK1/75l/+Iq/FZWiTXaMLdCrxeUL2c8owPOYzznKn0A796jFlFZwzzanaspNwIBGhYeV/ExHYnBG3J55POKr2i2u/wACvbLZN9O2t+xU+xwf9BK1/wC+Zf8A4inRQRwyCSPU7UMP9iQ59QRs5HtVe7g+y3k1vu3eVIybsYzg4zV2HT3hPmrfW8UkcSynIclAwGD908/MOnQ/Srk1b4t/67GkmuW/M9f67Gjp9rZvdWs0xWOTzkaOWBCsch3DIw5BJyMfIuFzzxwOcrUhs7yXVJGe8jFzBcpEJJSzbpMkLjg/3e9Urm2+zeXiWOVZU3q0ecYyR3APUGppWUnre9iaNoza5r3t+v8AX6EFFFFdJ1hRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABTpChYeUrKu0ZDNuOccnoOM5OOw4560UUANpyFAr71YsV+QhsBTkcnjkYyMcckHtglFADaKKKAHSFCw8pWVdoyGbcc45PQcZycdhxz1ptFFADkKBX3qxYr8hDYCnI5PHIxkY45IPbBbRRQAU6QoWHlKyrtGQzbjnHJ6DjOTjsOOetFFADachQK+9WLFfkIbAU5HJ45GMjHHJB7YJRQA2iiigB0hQsPKVlXaMhm3HOOT0HGcnHYcc9abRRQBJG0At5RLHI0xx5TrIAq885XaS2R0wRj3qOiigAp0hQsPKVlXaMhm3HOOT0HGcnHYcc9aKKAG05CgV96sWK/IQ2ApyOTxyMZGOOSD2wSigBtFFFADpShmcwqyRljsV23EDsCcDJ98Cm0UUAOBTyWBVjJuG1g3AHOQRjk9Oc8YPXPDaKKACnSlDM5hVkjLHYrtuIHYE4GT74FFFADacCnksCrGTcNrBuAOcgjHJ6c54weueCigBtFFFADpShmcwqyRljsV23EDsCcDJ98Cm0UUAOBTyWBVjJuG1g3AHOQRjk9Oc8YPXPDaKKACnSlDM5hVkjLHYrtuIHYE4GT74FFFADak3QfZNvlyfaN+fM8wbNmOm3bnOe+fw70UUAR0UUUAOlKGZzCrJGWOxXbcQOwJwMn3wKbRRQA4FPJYFWMm4bWDcAc5BGOT05zxg9c8NoooAKdKUMzmFWSMsdiu24gdgTgZPvgUUUANpwKeSwKsZNw2sG4A5yCMcnpznjB654KKAG06IoJkMys8YYb1RtpI7gHBwffBoooAbRRRQA4lPJUBWEm47mLcEcYAGOD15zzkdMctoooAdEUEyGZWeMMN6o20kdwDg4Pvg02iigApxKeSoCsJNx3MW4I4wAMcHrznnI6Y5KKAG06IoJkMys8YYb1RtpI7gHBwffBoooAbRRRQBJug+ybfLk+0b8+Z5g2bMdNu3Oc98/h3qOiigB0RQTIZlZ4ww3qjbSR3AODg++DTaKKACnEp5KgKwk3HcxbgjjAAxwevOecjpjkooAbToigmQzKzxhhvVG2kjuAcHB98GiigBtFFFADiU8lQFYSbjuYtwRxgAY4PXnPOR0xy2iigB0RQTIZlZ4ww3qjbSR3AODg++DTaKKACnEp5KgKwk3HcxbgjjAAxwevOecjpjkooAbToigmQzKzxhhvVG2kjuAcHB98GiigBtFFFADnKFU2KwYL85LZDHJ5HHAxgY55BPfAbRRQA6MoGPmqzLtOArbTnHB6HjODjuOOOtNoooAKkkaA28QijkWYZ812kBVueMLtBXA65Jz7UUUAR06MoGPmqzLtOArbTnHB6HjODjuOOOtFFADaKKKANLVP+Qdo3/Xk3/pRNWbRRQA6MoGPmqzLtOArbTnHB6HjODjuOOOtNoooAKc5QqmxWDBfnJbIY5PI44GMDHPIJ74BRQA2nRlAx81WZdpwFbac44PQ8Zwcdxxx1oooAbRRRQA5yhVNisGC/OS2QxyeRxwMYGOeQT3wG0UUAOjKBj5qsy7TgK205xweh4zg47jjjrTaKKACnOUKpsVgwX5yWyGOTyOOBjAxzyCe+AUUANp0ZQMfNVmXacBW2nOOD0PGcHHcccdaKKAG0UUUASTNA3l/Z45I8IBJ5kgfc/cjCjA9ucepqOiigByFAr71YsV+QhsBTkcnjkYyMcckHtgtoooAuLqLKvNvC0vlGLzju3bduzoGxwvHSmm6tgw2WERXy1UiSRySwHzNwR1POOwwPclFRyRM/Zx6CtfLJO0ktnA+VVVUlwECrtGMNnoB1zUyav8AvLh7m0hnMpRkQgqkbJwvyjqu0kY+npglFL2cReyg9LFCWV55nllO55GLMcYyTyama9kfzchf3kKQng9F24/H5B+tFFVyovlj2Jm1RxePPDGql50uGDHd865z6fKSx46gYGTjJqtMzWqQEDajs4PfLBQf/QRRRQoRWqQlCKd0hqFAr71YsV+QhsBTkcnjkYyMcckHtgtooqiwp0hQsPKVlXaMhm3HOOT0HGcnHYcc9aKKAG05CgV96sWK/IQ2ApyOTxyMZGOOSD2wSigBtFFFADpChYeUrKu0ZDNuOccnoOM5OOw45602iigByFAr71YsV+QhsBTkcnjkYyMcckHtgtoooAKkuGga4Y2kckUPG1JZA7DjnLBVB59hRRQBHTkKBX3qxYr8hDYCnI5PHIxkY45IPbBKKAG0UUUAaEU2jCFBNYXzyBRvZL5FBPcgeUcD2yaKKKAP/9k=)

**Figure 16:** OFT001 v1 – Various user meta data layers

### External GPS antenna Impedance matching

The external GPS antenna trace needs to be carefully impedance-matched to 50 ohms in order to get the signal losses low and to avoid reflections. Based on PCBWay PCB substrate stack-up, the top cupper strip thickness (T) is estimated to be 35um (+/- 10%), the distance to next ground layer (H) is estimated to be 0.11 mm (+/- 10%), and the dielectric permittivity in between is estimated to be 4.5 F/m @ 1.5 GHz (I need to recalculate with 4.29 F/m Nominal instead).

With the constraints of 6 mil inch strip widths/spacing we end up with a 0.2 mm (W) strip width, and a 6 mil/0.16 mm (S) horizontal spacing to earth - forming a coplanar wave guide with a ground plane of roughly 2 mm length (L) matching the 50 Ohm antenna strip impedance.

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beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGpvbmFzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0NAAAkpIAAgAAAAM0NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 17:** OFT001 v1 – External GPS antenna layout

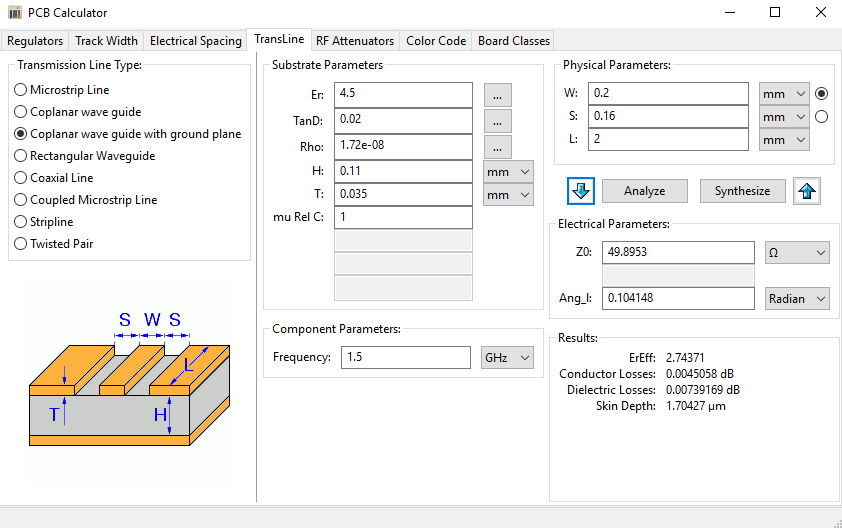
With this layout, it is expected that the tolerances of non-impedance-controlled PCB manufacturing for this trace stays in between 41-55.5 Ohms, and losses to be less than 10 mdB.

Since the 1.5Ghz GPS wavelength in cupper is roughly 2 dm (100 times the trace length), a few reflections due to impedance matching imperfections should not degrade the antenna signal significantly.

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**Figure 18:** OFT001 v1 – External GPS antenna layout – top CU layer



**Figure 19:** OFT001 v1 – External GPS antenna – Impedance calculations

# **Appendix A – Huzzah32 commercial mother board reference from Adafruit**

OpenFly Telemetry depends on the commercial Adafruit ESP32 Huzzah Feather board as the CPU board. This board is a mandatory part of the OpenFly Telemetry solution, and sits below OFT001v1 in the hardware stack.

This appendix is only for reference, describing the Adafruit ESP32 Huzzah design and pin-out.

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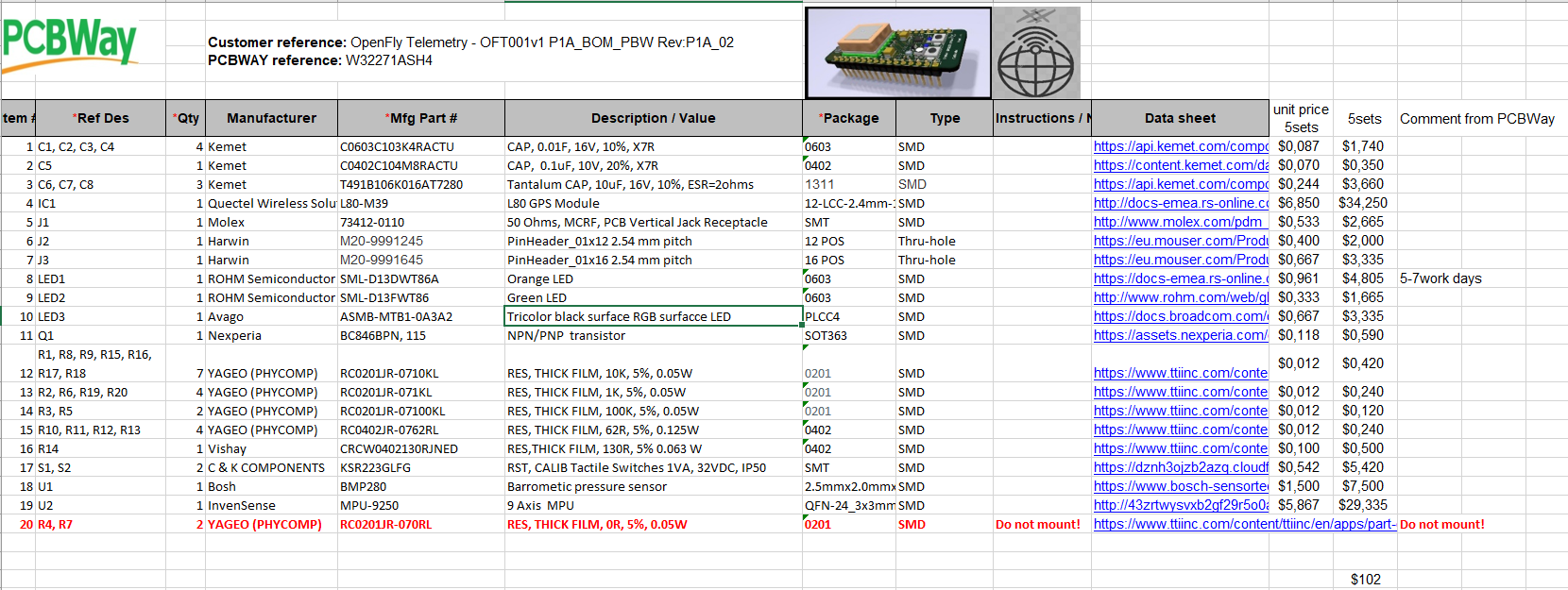
**Figure 20:** Commercial Adafruit ESP32 Huzzah Feather board

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**Figure 21:** Commercial Adafruit ESP32 Huzzah Feather board schematics

# **Appendix B – OFT001 v1 Build of material**



**Table 7:** OFT001 v1 BoM

# **Appendix C – OpenFly Telemetry repositories**

### OFT HW Repositories:

<https://github.com/jonasbjurel/open_telemetry_HW>

### OFT SW Repositories:

<https://github.com/jonasbjurel/open_telemetry>

### OFT SW Plattform Repositories:

<https://github.com/jonasbjurel/coreNoStopRTOS>

# **Appendix D – OFT001v1 Errata/TODOs:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Errata:** | **Date found:** | **Products affected:** | **Versions affected:** | **Description:** | **Workaround:** | **Proposed final fix:** | **Estimated version for fix:** | **Concluded final fix** |
| ERROFT001-1 | 2019-12 | OFT001v1 | P1Axx | MPU9250 footprint not optimal | Not needed – successfully mounted | New PCB layout | R1A | Not yet |
| ERROFT001-2 | 2020-01 | OFT001v1 | P1Axx | High Status diode Luminance | SDK D/A/PWM Trim of Status Luminance | Adjusted LED serial resistors:  R12, R13, R14: 330 Ohm | R1A | Not yet |
| ERROFT001-3 | 2020-01 | OFT001v1 | P1Axx | Erroneous I/O pin assign-ment for GPS UART | Wire patch as described in Appendix D.1 | New PCB layout | R1A | Not yet |
| Inconclusive | 2020-01 | OFT001v1 | P1Axx | External GPS Antenna not yet validated including the external antenna LED | Inconclusive | Inconclusive | N/A | N/A |
| Inconclusive | 2020-01 | OFT001v1 | P1Axx | External GPS Antenna trace impedance needs to be re-calculated and validated | Inconclusive | Inconclusive | N/A | N/A |

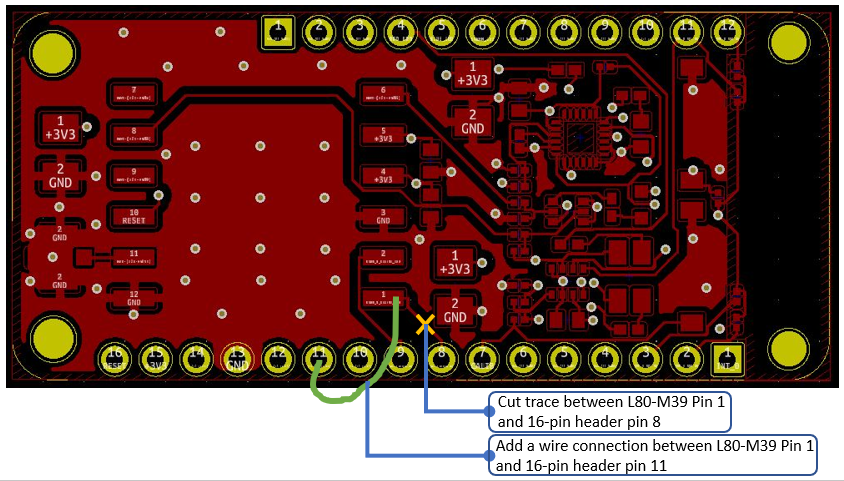
**Table 8:** OFT001 v1 Errata

# **Appendix D.1 – OFT001v1 Errata/TODOs:**

## **ERROFT001-3:**

This workaround is purely limited to the first 5 P1A pre-production boards and should not need to be payed attention to anyone except the creators.

On the front/top layer – solder a wire between L80-M39 Pin #1 and the 16-Pin header Pin#11 and cut the trace between L80-M39 Pin #1 and the 16-Pin header Pin#8 as shown in the picture below.



**Figure 22:** OFT001 v1 P1A - Front/top signal cupper layer ERROFT001-3 patch

# **Appendix E – BIST Self-test software:**

The OFT001 v1 comes with a self-test program to validate the functionality of the board. The building and loading of the self-test program is described in Appendix E.1 further down.

The self-test program exercises most of all needed functions in order to validate a functional PCB as well as correct component mounting. Logging and output data are streamed to the standard ESP32 serial output (Serial 0) @ 115.200 baud, as well as to a Bluetooth Low Energy (BLE) virtual serial port. The standard serial port only reports progress-, fault- and debug information; while BLE in addition to that also streams navigational data once the self-test has successfully passed.

The self-test is divided into X phases of testing, whenever a test phase fails – all subsequent test phases are skipped, and the system is halted, showing the fault code for the detected fault.  
Following test-phases (in order) are implemented:

**CALIB\_BUTTON\_TEST:**  
This is the simplest first test, testing the function of calibration. To complete this test, you will need to press the Calibration button within 20 seconds, or the self-test will fail. The Status LED remains entirely unlit during this test phase.

**STATUS\_LED\_TEST:**

In this test-phase, the red, blue, and the green LEDs will be calibrated to their respective maximum luminance.

* First the Red color will lit-up, and over time increase its luminance. Press the Calibration button once you’re satisfied with the luminance (don’t go to high in luminance or the LED may be short lived).
* In a second step you will calibrate the blue LED – in this step the red and the blue LED will alternately be lit up – and the red with it calibrated luminance as a reference, and the blue with increasing luminance. Press the Calibration button once the red-, and blue luminance appear to be about the same.
* In a third step you will calibrate the green LED – in this step the red and the green LED will alternately be lit up – and the red with it calibrated luminance as a reference, and the green with increasing luminance. Press the Calibration button once the red-, and green luminance appear to be about the same.

This calibration process will output relative calibration factors for the three status LED colors as a reference for further application development.

The LED calibration will conclude with a status LED color jiggle, leading up to all three emitting at their respective calibrated luminance – appearing as a cold white color if correctly calibrated.

**BMP280\_TEST**

In this phase, the BMP280 Barometric and temperature sensor is discovered through I2C\_0. This means that a successful I2C write and read was made to the BMP280 address.  
The Status LED remains blue during this test phase.

**MPU9250\_TEST**

In this phase, the MPU-9250 9-Axis Inertial navigation sensor is being discovered through I2C\_1. This means that a successful I2C write and read was made to the MPU-9250 address. In additional, the MPU-9250 interrupt line is verified.

The Status LED remains blue during this test phase.

**L80M39\_TEST**

In this phase, the L80-M39 GPS is being discovered. The GPS is being forced into 115200 Baud, and set to report all data points. The reception of data is verified, as well as an order to report the firmware version loaded.

The Status LED remains blue during this test phase.

**SUCCESS\_TEST**

At this point all sensors have successfully been discovered.

Before the coming calibration will start, GPS lock is expected to calibrate GPS altitude to current altitude; if indoors, or otherwise cannot get GPS lock you may press the Calibration button to by-pass GPS altitude calibration, and move on with the rest of the calibrations.

At this point sensor calibration will proceed. When entering this phase, keep the OFT001 v1 board flat, calm and still on a horizontal surface for the accelerometers and gyrometers to successfully calibrate.

When prompted to calibrate the magnetometer, and when status LED turns white – a standard & proprietary calibration scheme is started – wave the sensor board around all 3 axis’s - in all possible angles until the calibration finishes (within one minute).

When the calibration has finished, streaming of sensor data to the BLE device will commence, and the status LED will turn green.

**STREAM\_SENSORDATA\_TEST**Entering the “STREAM\_SENSORDATA\_TEST” concludes the self-test and the calibration, from here filtered navigation data will be steamed to the BLE device. Example data:  
**GPS:** *Date, Time, 2D/3D precision, Acquired Satellites, Lon, Lat, Speed, Hdg, Alt***Barometric:** *Pressure, Alt, Temp***Inertial (Euler):** *Pitch, Roll, Yaw, Mag-Hdg, Mag-Inclination, Mag-Field, Total-G*

These values are filtered, and for the Inertial Euler angles a software Fuse/Kalman filter is employed.  
Some of these measurements have been complemented with its derivates/rates.

The streaming data is only accessible through a BLE serial device.

The Status LED remains green during this test phase.

**FAIL\_TEST**

The self-test has failed in any of its phases. In this condition a fault code will be printed, and the process will spin/halt. Current fault codes are defined:

#define BIST\_FC\_SUCCESS 0

#define BIST\_FC\_CALIB\_BUTTON\_FAIL 1

#define BIST\_FC\_STATUS\_LED\_FAIL 2

#define BIST\_FC\_BPM280\_NO\_DETECT\_FAIL 3

#define BIST\_FC\_BPM280\_DETECT\_BUT\_NO\_FUNCTION\_FAIL 4

#define BIST\_FC\_L80M39\_NO\_DETECT\_FAIL 5

#define BIST\_FC\_L80M39\_DETECT\_BUT\_NO\_FUNCTION\_FAIL 6

#define BIST\_FC\_GPS\_NO\_1PSS\_LOCK\_FAIL 7

#define BIST\_FC\_NO\_EXT\_ANT\_DETECT\_FAIL 8

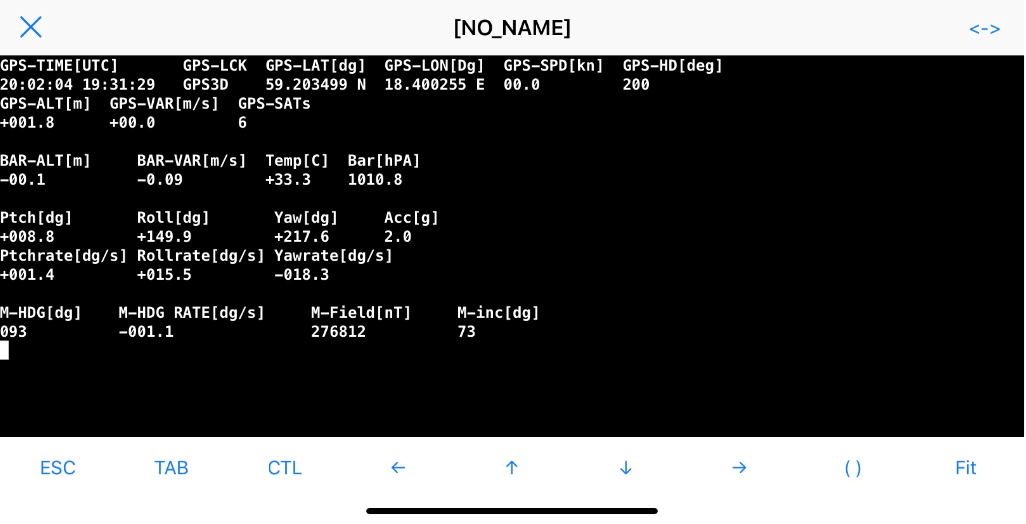
#define BIST\_FC\_MPU9250\_NO\_DETECT\_FAIL 9

#define BIST\_FC\_AK8963\_NO\_DETECT\_FAIL 10

#define BIST\_FC\_MPU9250\_DETECT\_BUT\_NO\_FUNCTION\_FAIL 10

#define BIST\_FC\_MPU9250\_INTERUPT\_LINE\_OPEN 11

#define BIST\_FC\_MPU9250\_NO\_INTERUPT 12



**Figure 23:** OFT001 v1 Self-test BLE streaming of navigation data to an Apple IOS device

# **Appendix F – Setting up OFT001 v1 design environment for self-test**

## **Pre-phase**

The OFT Software development have so far been using the Visual Studio and Visual Micro components for software development; this is because bare Arduino is to ridge in its way to define dependencies, local libraries, and project file structure including git sub modules etc.

On the other hand – Visual studio with its many project meta files does not easily port to a new environment, even if the same infrastructure (x86, Windows 10, …). Although I have provided some instructions below to build the simplest OFT001 v1 self-test, I’m the first to admit that it is too complicated-, too many manual steps-, to much manual clicks for library dependencies which may go wrong. The best building practice would have been a Linux cross-compiler environment with ordinary make scripts taking care of the dependencies – but we are far from that at this point.

Below is a try to set up the OFT SW environment as been used in the SW development: ….

## **Pre-requisites**

You need to have a hardware setup stack where there is a Huzzah32 motherboard with stackable connectors connecting to the OFT001 v1 sitting on top of the Huzzah32 board.

You also need to have a Windows computer with a USB interface, and an USB micro-connector connected to the Huzzah32 board for power feed and downloading of the software. This is in practice a USB/Serial converter which requires a very selective driver version – outside the scope of this description.

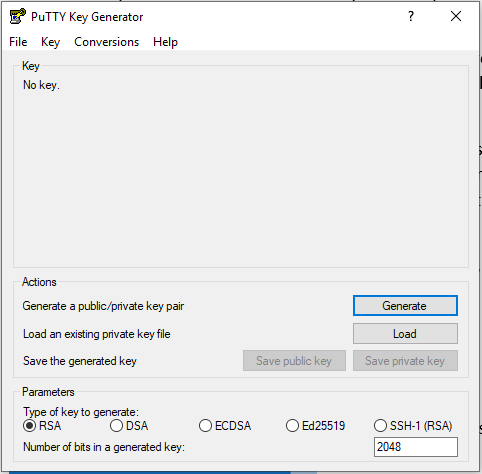
## **Install GIT and appropriate GIT tools**

The OFT project uses GIThub ([www.github.com](http://www.github.com)) as a global repository, for version control as well as for community collaboration. To be able to pull the repositories needed, as well ass collaborate in the project you need to install a GIT client.

Download and install the “GIT for Windows” client from here: <https://git-scm.com/download/win> and stay with the default installation settings. This will install a GIT client and a Unix style GIT bash console “Git Bash”.

If you are familiar with GIT and the GIT commands you can stay with “Git for Windows” and “Git Bash”, if not download the “Git Extensions” GUI front-end from here: <https://sourceforge.net/projects/gitextensions/> Use default installation settings, except for the SSH client, where you want to use Putty instead of OpenSSL.

You now need to download PUTTY, an open source console, SSH and a SSH key generator, install it from here: <https://www.puttygen.com/download-putty>  
Now run PuTTYGen and press “Generate” button to generate your own private and public SSH key pair:

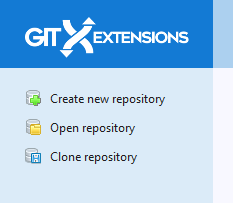


**Figure 24:** PuTTYGen - generating your own SSH key pair

After the keys have been generated, save the private and public key to a safe place on your local disk: [file, save public key] and [file, save private key].

## **Clone the OpenFlight Telemetry HW repository**

Open Git Extensions previously installed, select “Clone repository” from the upper left corner.



**Figure 25:** GIT Extensions, cloning a github repository

TODO – SSH KEY MANAGEMENT?

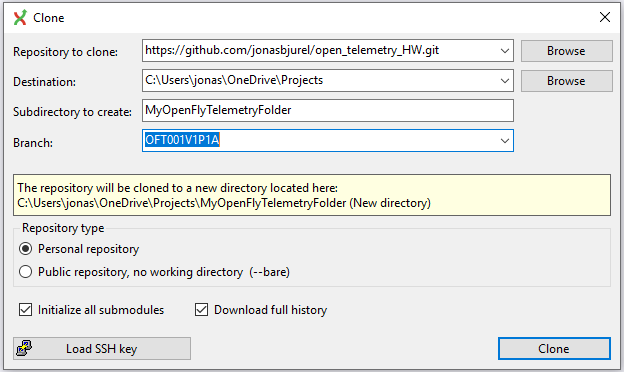
Now a pop-up menu will show up asking you what upstream github cloud repository to clone, where to place it on your local disk, and which branch to clone,

The “upstream repository” shall be: <https://github.com/jonasbjurel/open_telemetry_HW.git>

The “Destination” shall be a folder/path on your local disk

The “Subdirectory to create” is the sub folder name/path in which the local copy of the repository will be placed.

The “Branch” defines the repository branch to clone, master is an unstable branch – so you better use a release branch such as OFT001V1P1A or as you which.



**Figure 26:** GIT Cloning of the OFT001 “open\_telemetry\_HW” repository

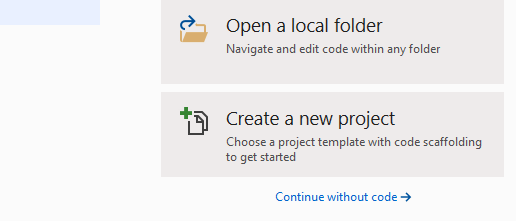
You now have the repository cloned to your local disk, with a GIT repository versioning data-base, you may now use standard GIT operations on your local repository such as: editing, staging for commit, committing, interacting with the upstream repository – but this is all outside of this description.

## **Installing Visual Studio and Visual Miro Arduino Integrated Development Environment (IDE)**

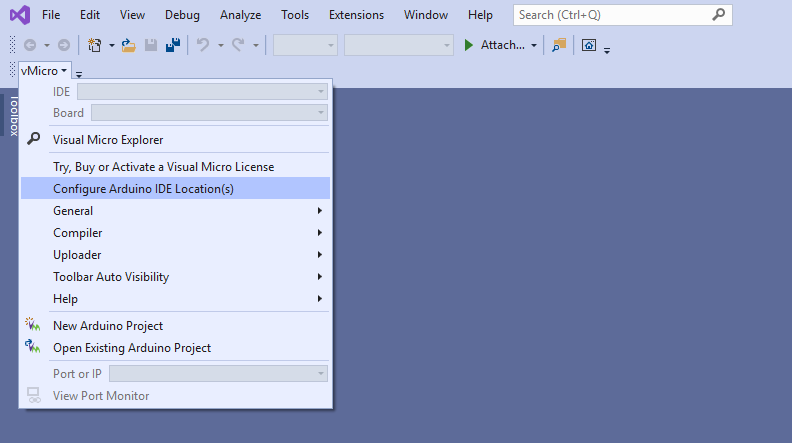
The OFT project is using Visual Studio and Visual Micro for ESP32 Arduino as it’s software development environment. Follow these instructions to install this environment: https://www.visualmicro.com/#  
**Note:** Do not install the Windows App version of the Arduino IDE, but the full download version.

## **Open, configure and build the OFT001v1 BIST (Self-test project)**

Open “Visual Studio” using “Continue without code” option:



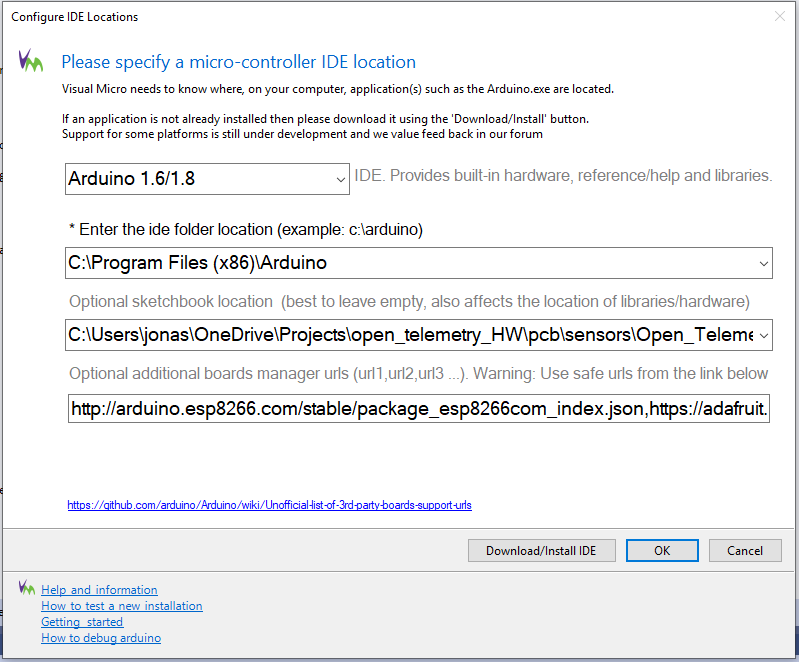
**Figure 27:** Select “Continue without code”



**Figure 28:** Under vMicro, select “Configure Arduino IDE Location(s):

In the “Optional additional board urls” field, add: http://arduino.esp8266.com/stable/package\_esp8266com\_index.json,  
https://adafruit.github.io/arduino-board-index/package\_adafruit\_index.json,  
<https://dl.espressif.com/dl/package_esp32_index.json>

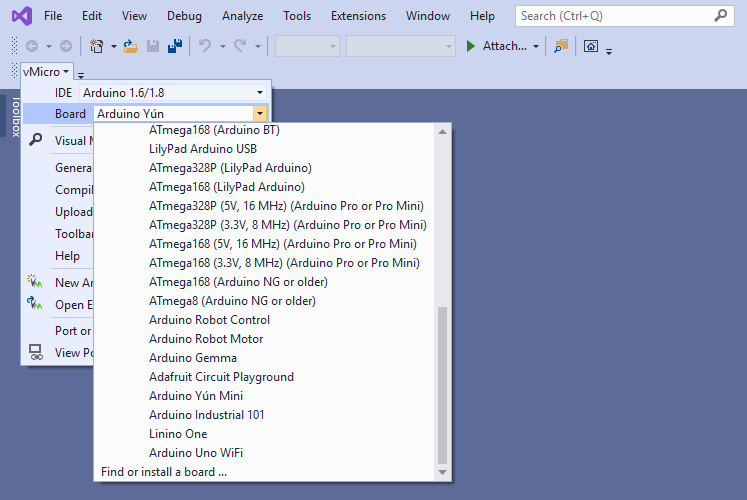
It is important to fill in your local sketchbook location – such that the IDE can find the libraries that comes with the BIST repository. I.e.:   
[git-root]\open\_telemetry\_HW\pcb\sensors\Open\_Telemetry\_digitalSensorShield\BIST\OFT001v1\_BIST



**Figure 29:** Arduino IDE version, location, board support package URLs and Sketch location

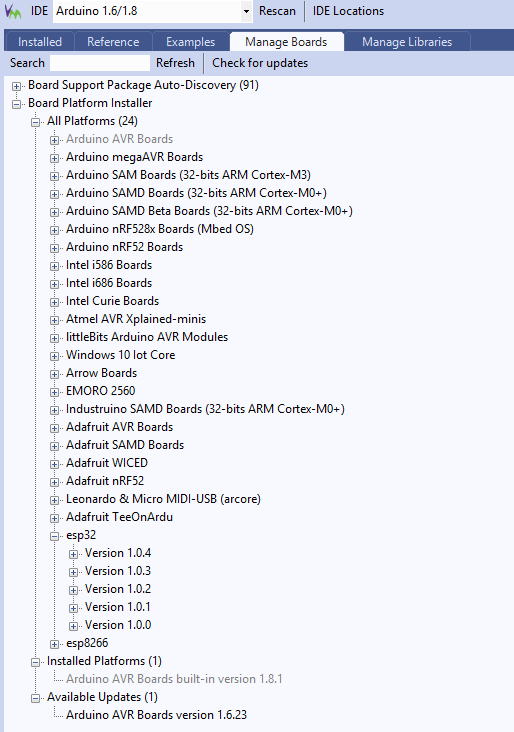
Under “vMicro”, enable the software license (payed or trial).

Under “vMicro”, select the Arduino IDE version you previously installed and under the “Board” option, select “Find or install a board…”



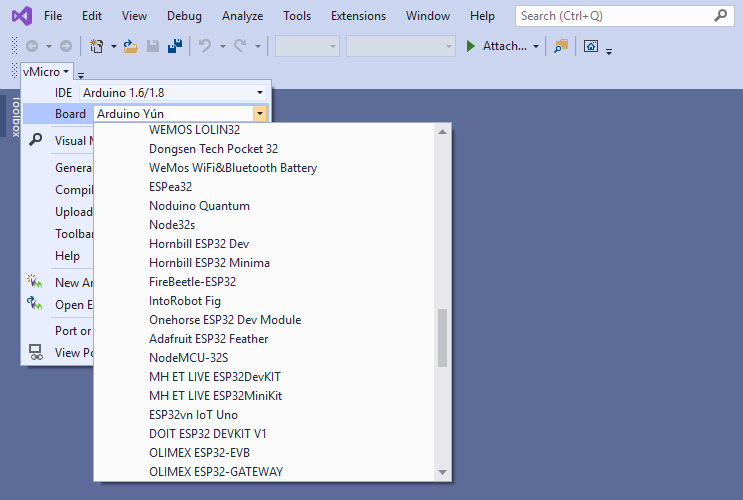
**Figure 30:** Select “Find or install board …”

Install the latest ESP32 board support package (in this example 1.0.4) and the click on “Rescan” at the top of the screen.



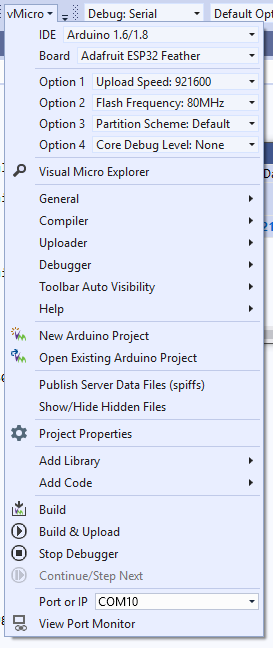
**Figure 31:** Select latest version of ESP32 IDE

You should now be able to select the “Adafruit ESP32 Feather” board support package under “vMicro” – “Board”.



**Figure 32:** Select the Adafruit ESP32 feather board support package

Under vMicro, set-up the COM port- and speed for the ESP32 binary upload:



**Figure 33:** Select the upload COM port and speed

Now load the OFT001v1 self-test project found in your local cloned “open\_telemetry\_HW” repository, I.e.:  
[git root]\pcb\sensors\Open\_Telemetry\_digitalSensorShield\BIST\OFT001v1\_BIST\OFT001v1\_BIST.sln and start the build by selecting vMicro -> Build & Upload.

## **Bluetooth Low Energy (BLE) monitoring and data-streaming**

The BIST self-test status-, events- and navigational data are continuously streamed to Bluetooth Low Energy UART capable client devices. There are many such device Apps for mobile devices for IoS, Android and Windows. The one application which has been mostly used in the OFT hardware development is “AirTerminal” for Apple IOS.

## **Pre-build binary download and installation**

TODO