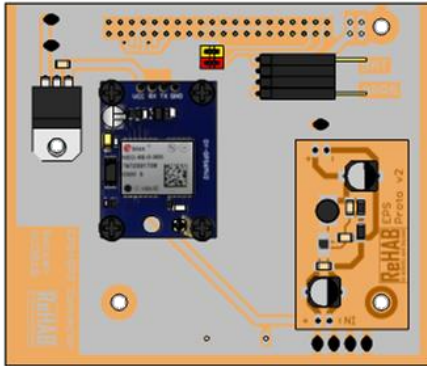


UPRA - MATeF-2

Integration Manual

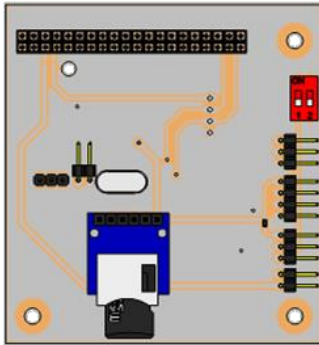
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MODULES



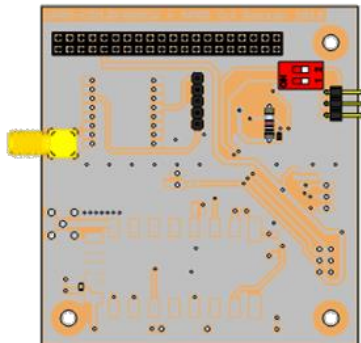
EPS-GPS Interface Card

- UPRA 2.0 Standard
- 94x80 mm



On-Board Computer (OBC)

- OBC.mega328
- UPRA Standard
- 70x75 mm

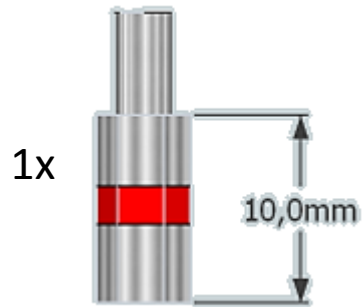


Communication Module (COM)

- COM.RF69HCW
- UPRA Standard
- 70x75 mm

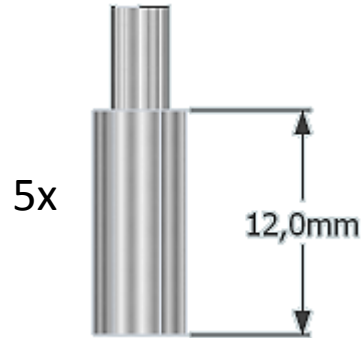
SPACERS

Nº1



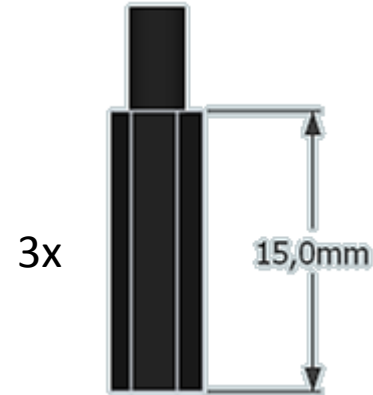
Height: 10mm
Male-Female
Material: Metal

Nº2



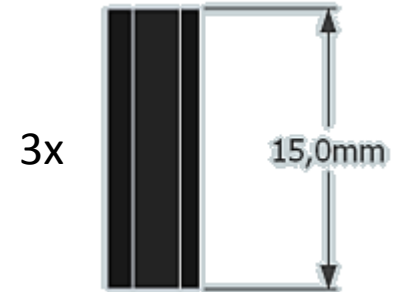
Height: 12mm
Male-Female
Material: Metal

Nº3



Height: 15mm
Male-Female
Material: Nylon

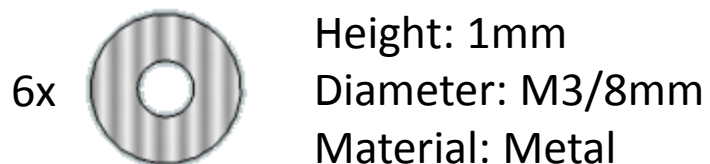
Nº4



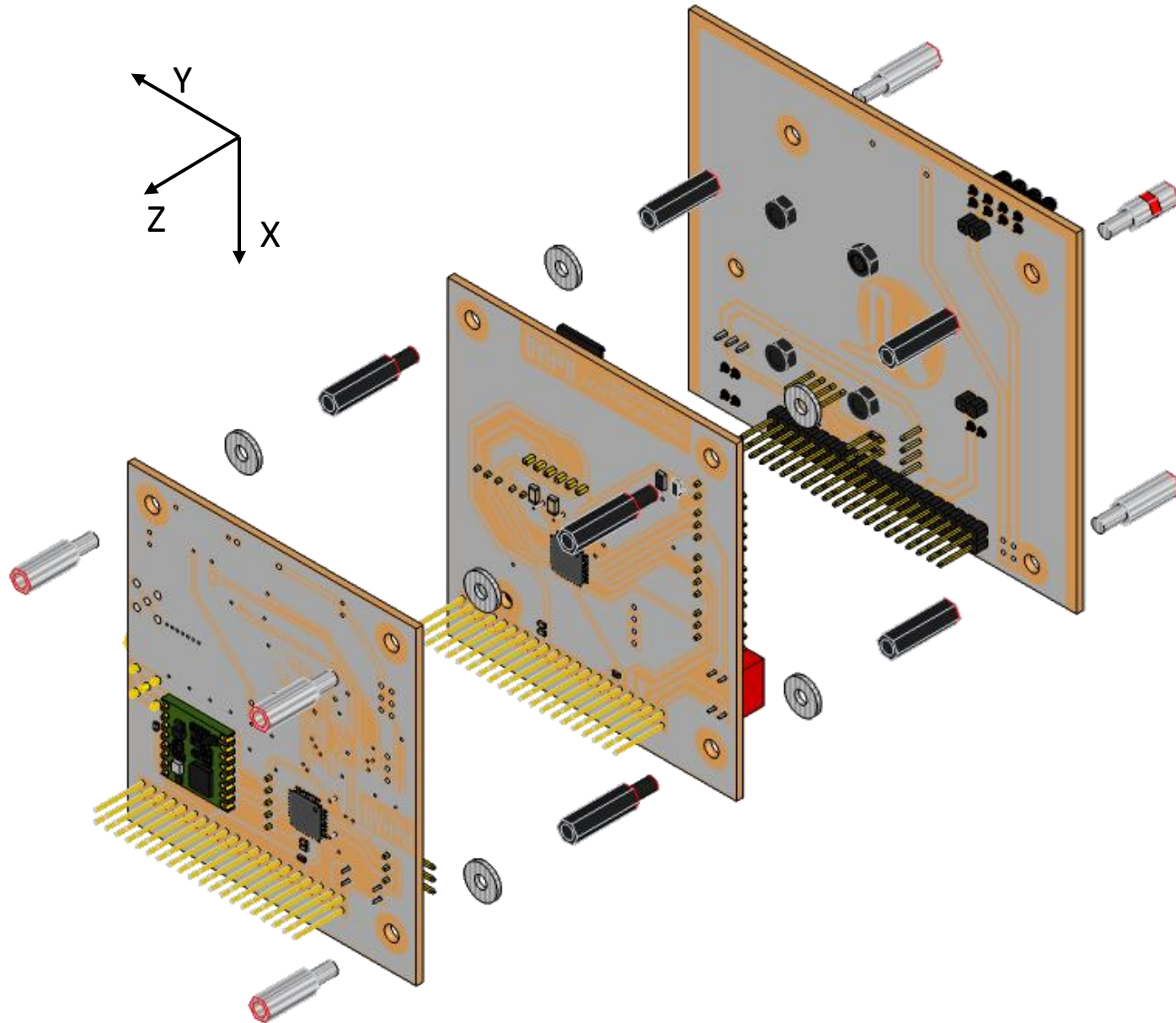
Height: 15mm
Female-Female
Material: Nylon

WASHERS

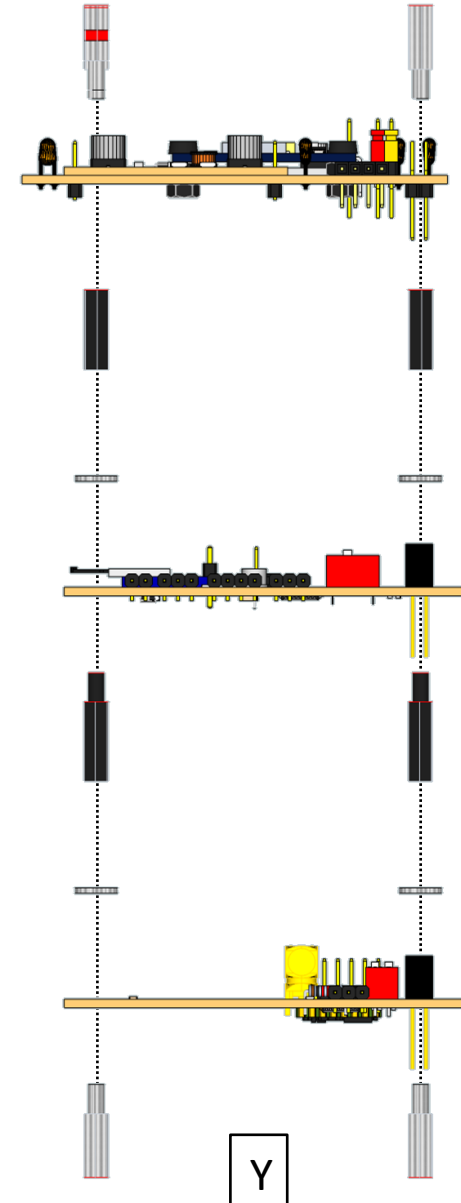
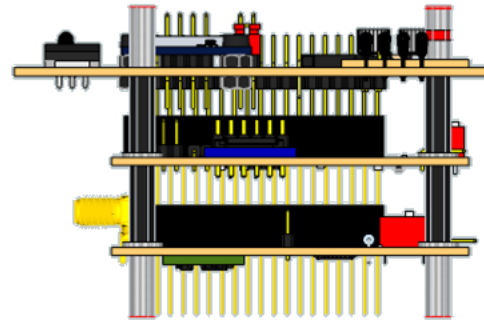
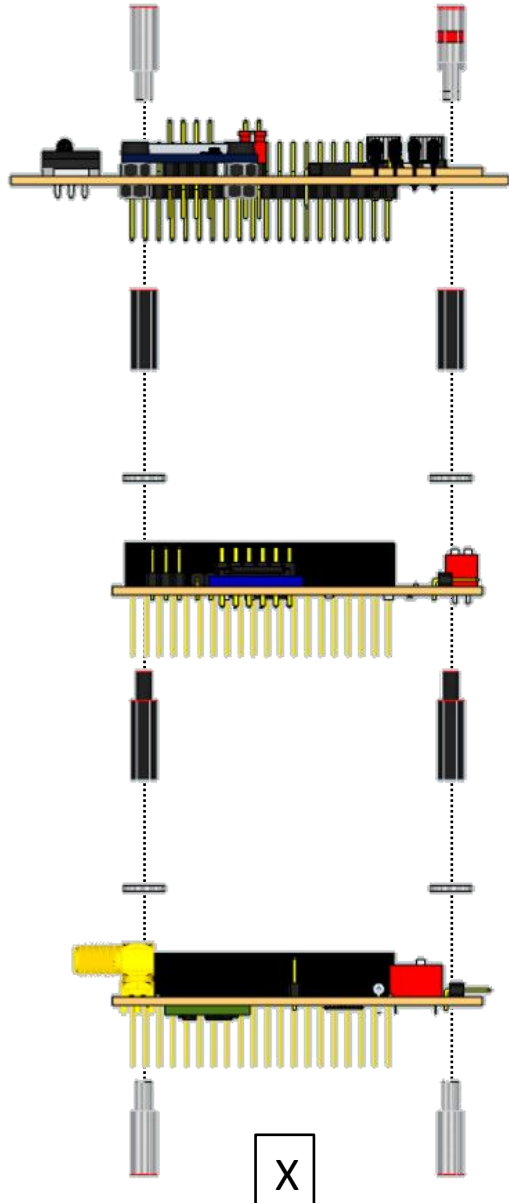
Nº5



Exploded 1

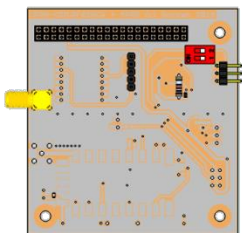


Exploded 2



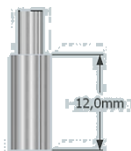
Step 1

1x



COM Module

3x



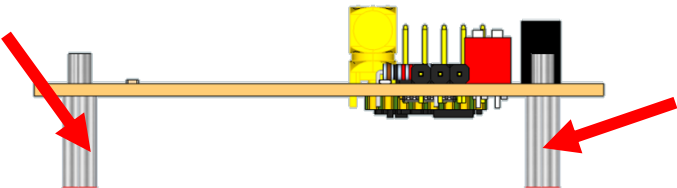
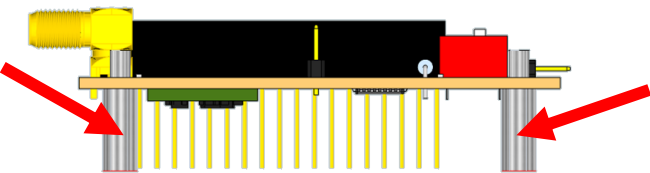
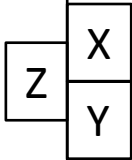
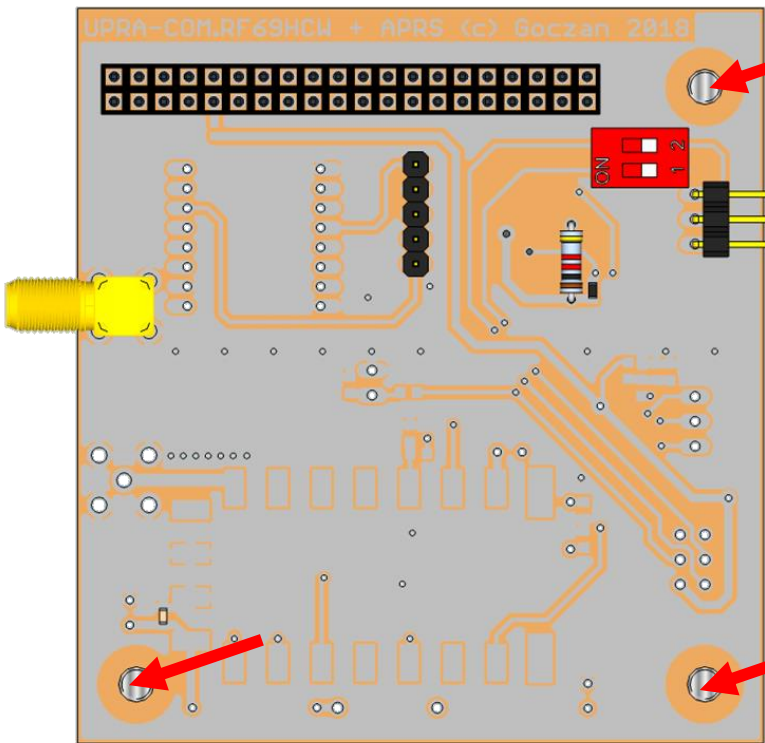
12mm Spacer

1. Place 12mm Spacers(Nº2) to the fixing holes of the COM module

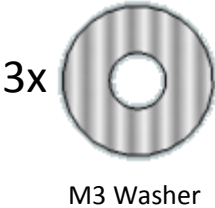
Personnel

Date

Signature



Step 2

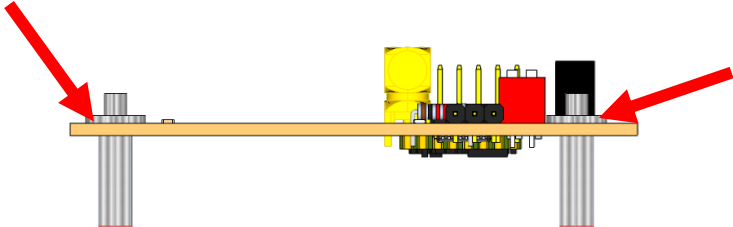
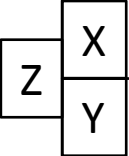
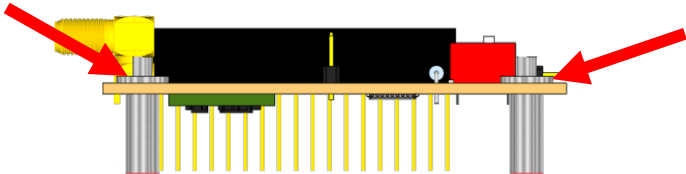
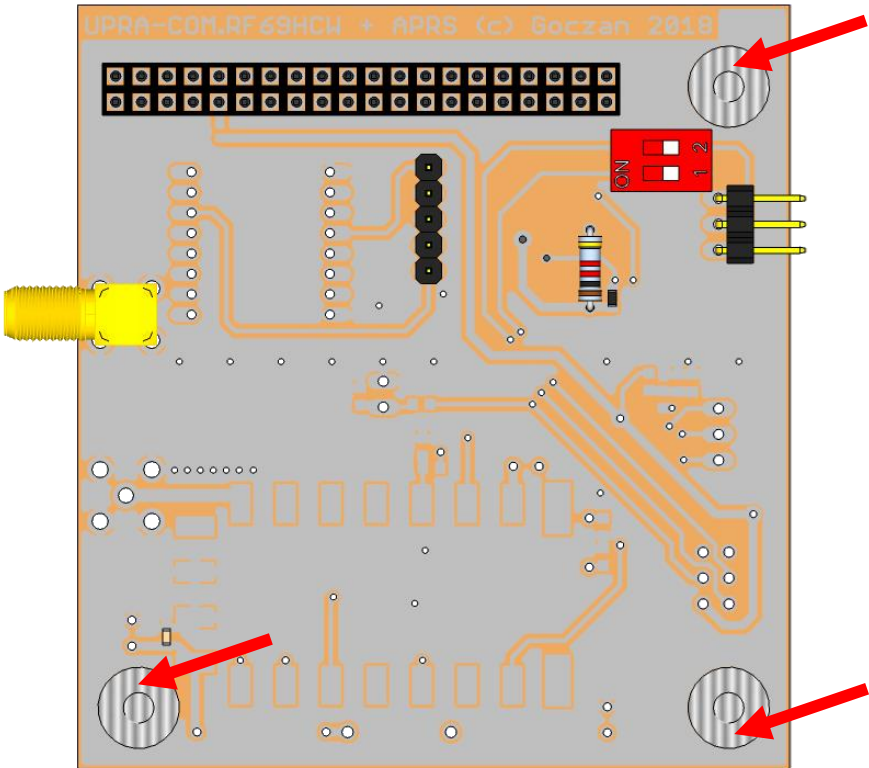


1. Add M3 washers(No5) to the threaded spacers

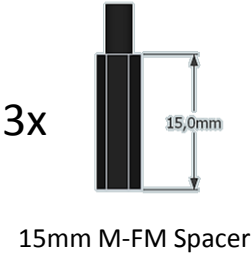
Personnel

Date

Signature



Step 3

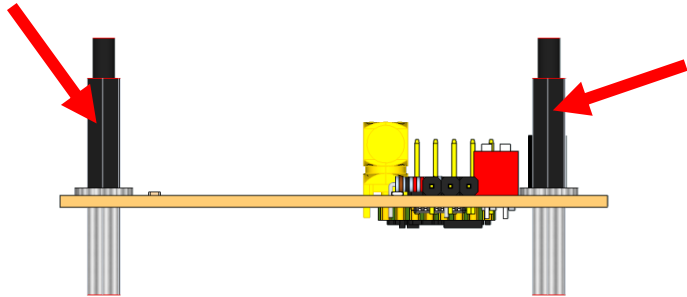
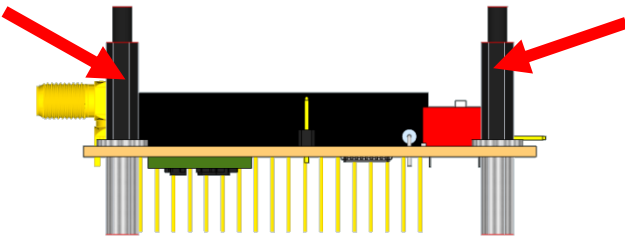
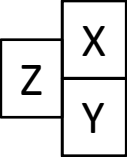
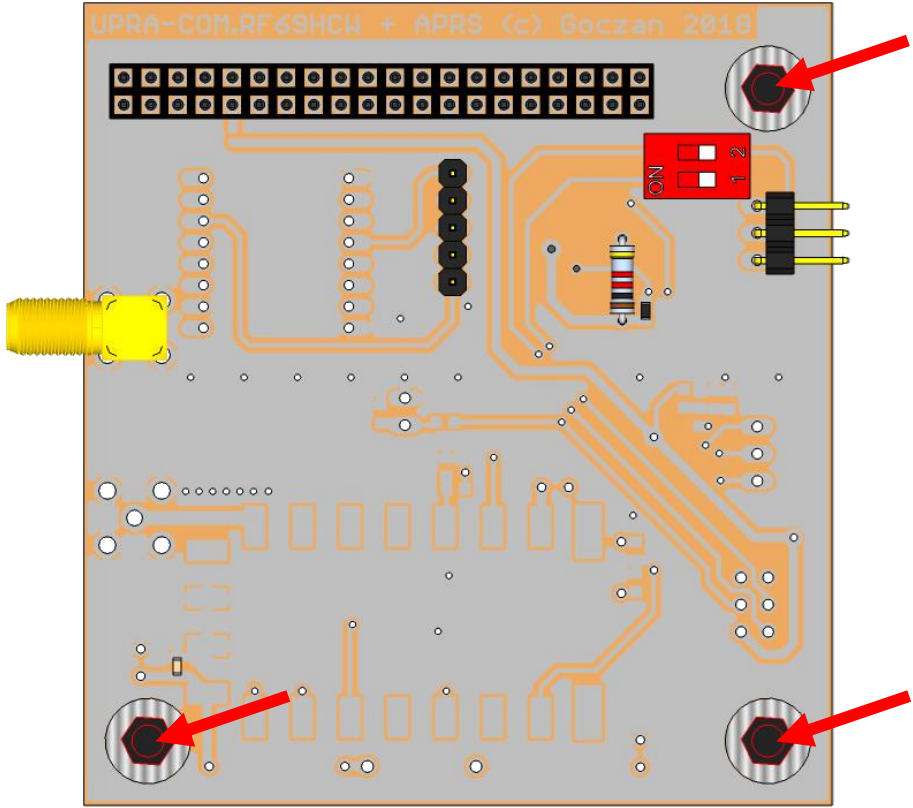


1. Add 15mm Male-Female Spacers

Personnel

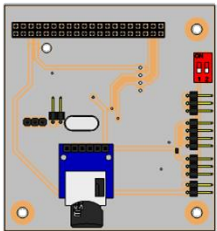
Date

Signature



Step 4

1x



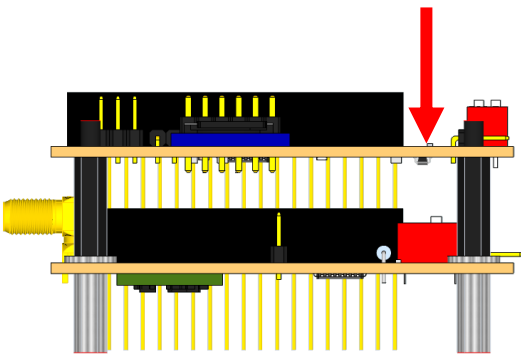
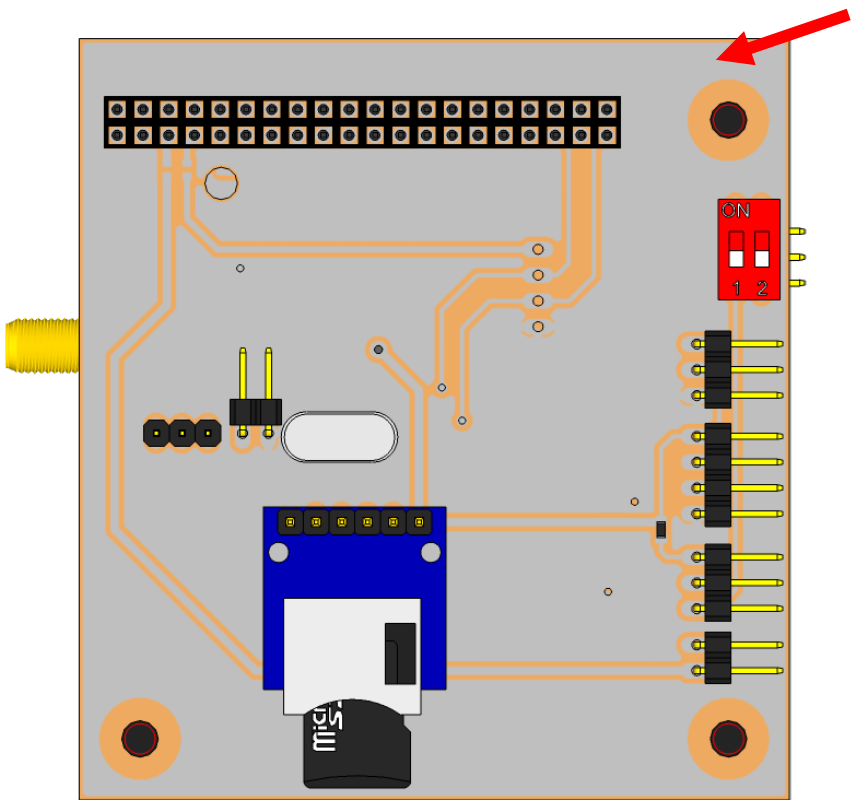
OBC Module

1. Connect the OBC module on top of the COM module

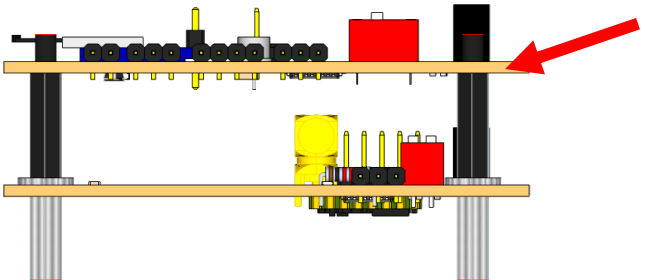
Personnel

Date

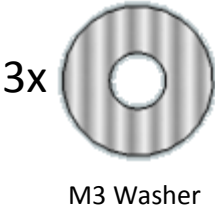
Signature



Z
X
Y



Step 5

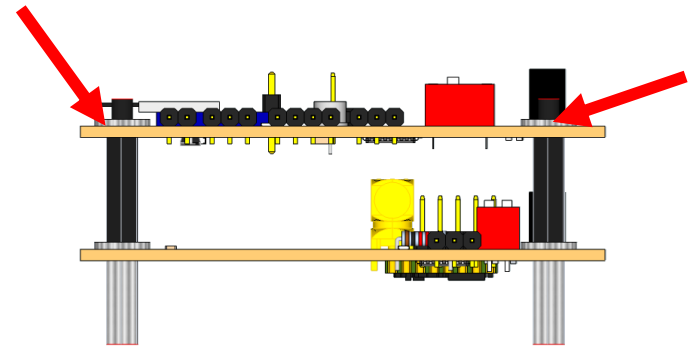
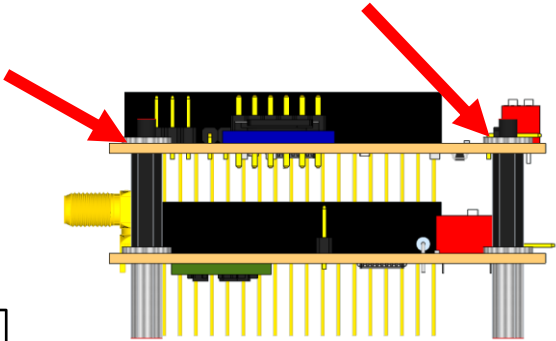
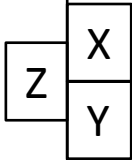
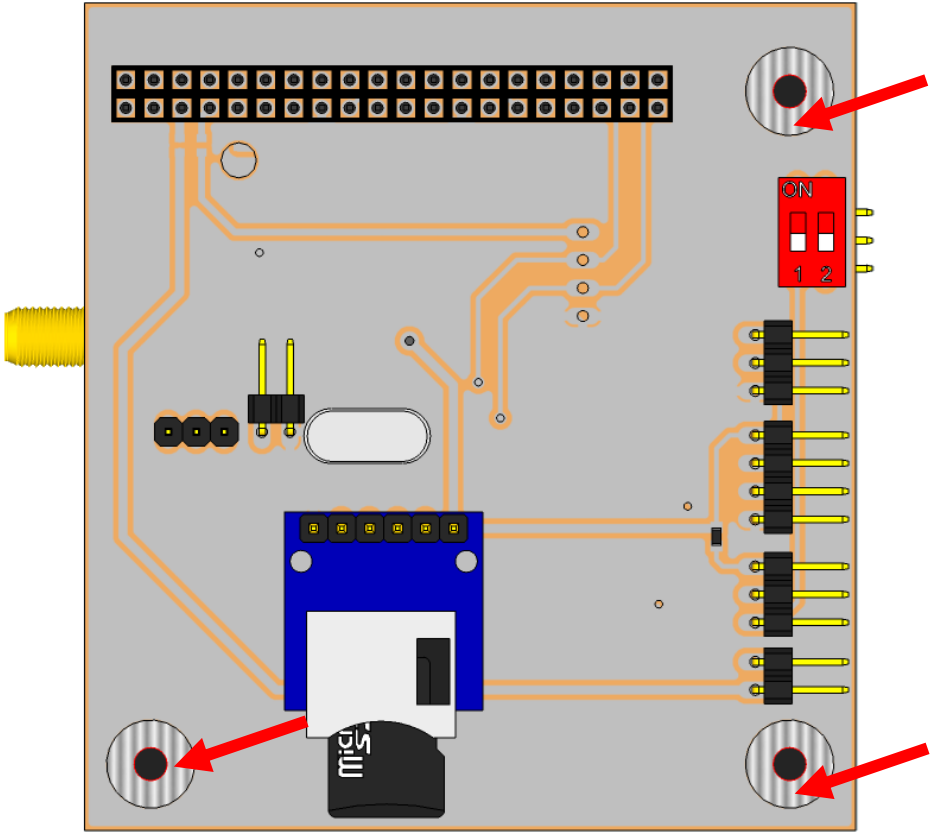


1. Add M3 washers(No5) to the threaded spacers

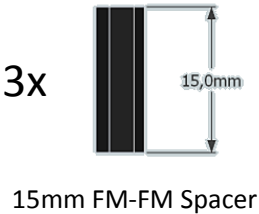
Personnel

Date

Signature



Step 6

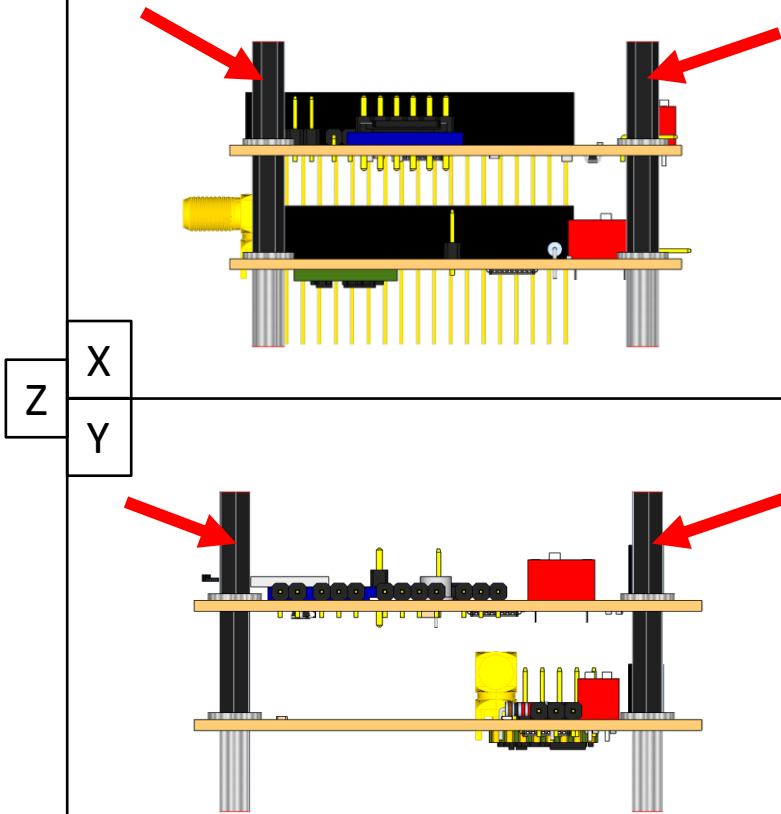
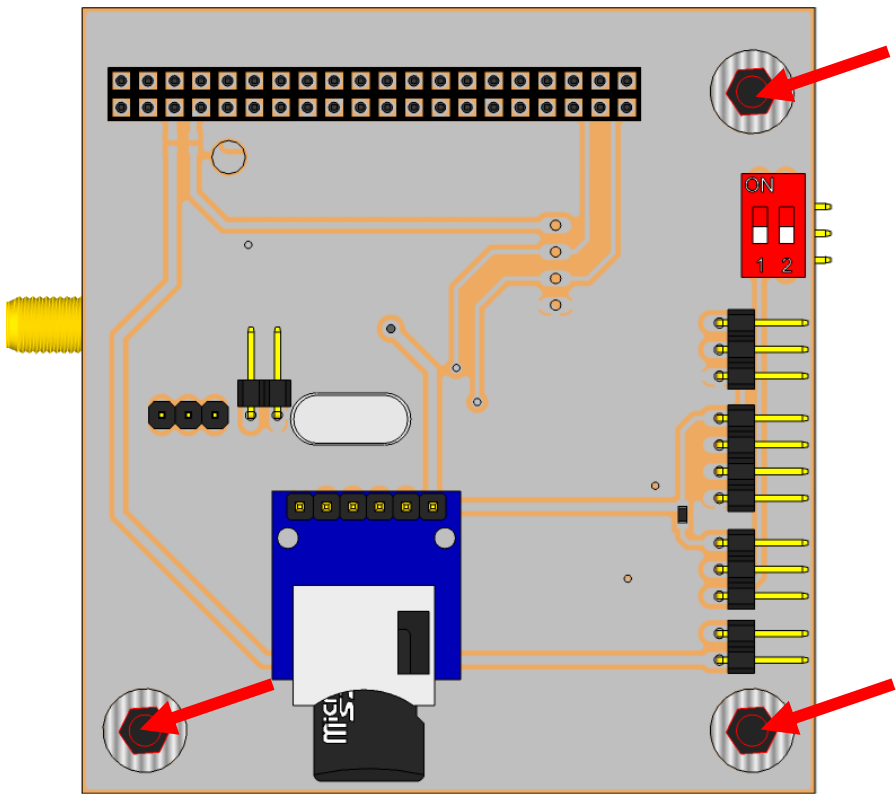


1. Add 15mm FM-FM Spacers(No4)

Personnel

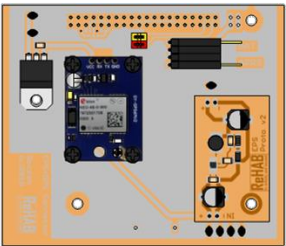
Date

Signature



Step 7

1x



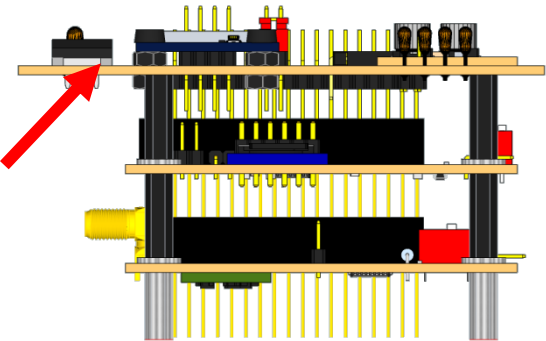
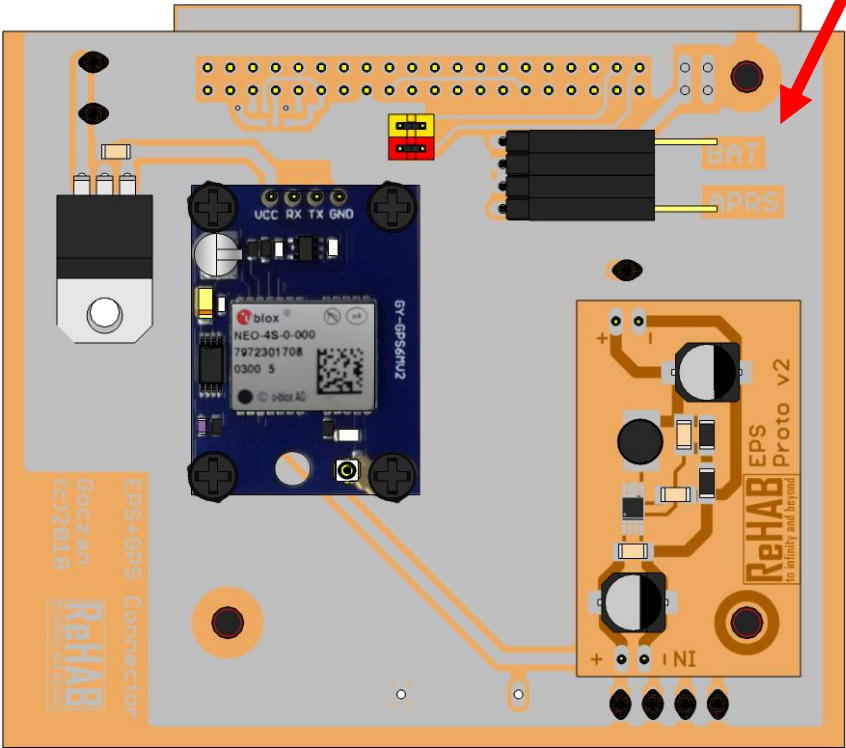
EPS-GPS Module

1. Connect the EPS-GPS module on top of the OBC module

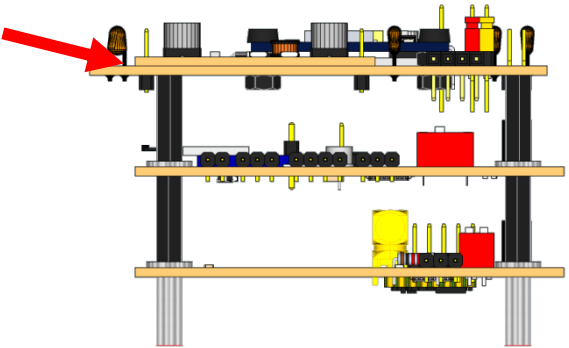
Personnel

Date

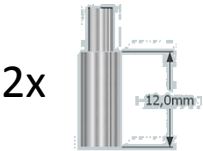
Signature



Z
X
Y

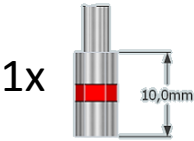


Step 8



2x

12mm Spacer



1x

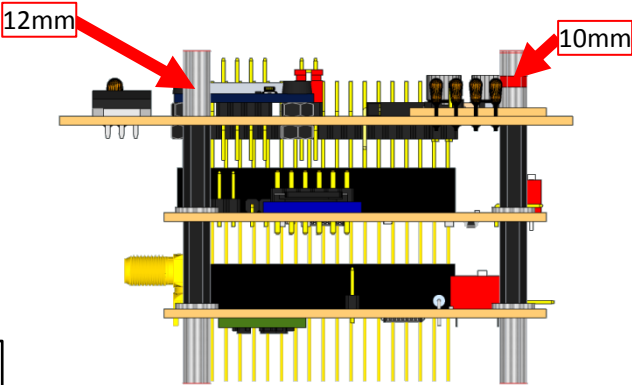
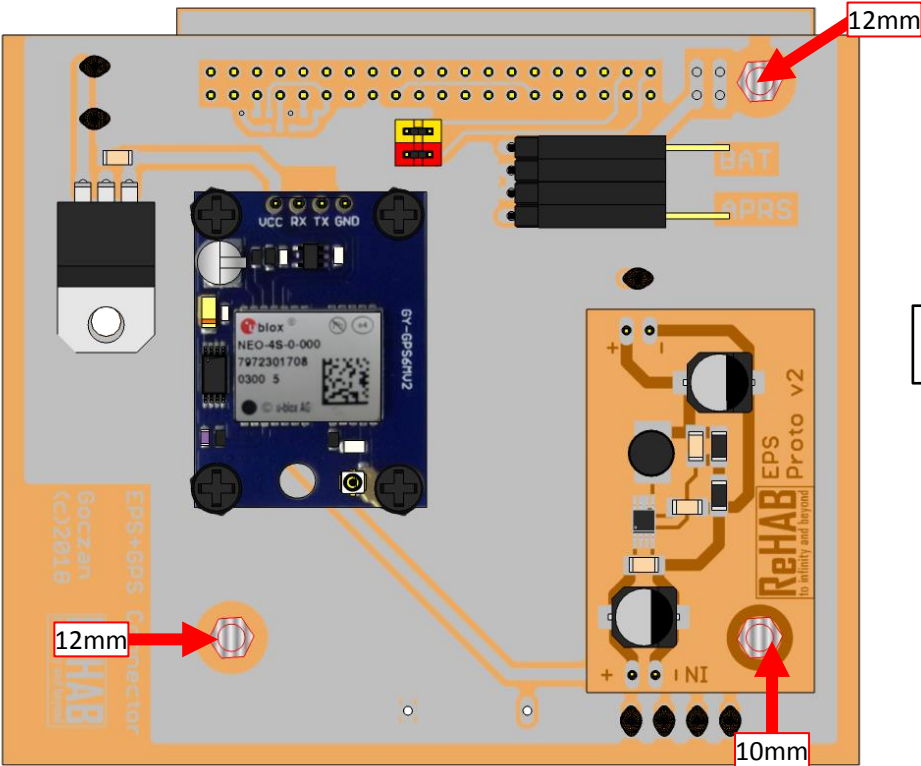
10mm Spacer

1. Add 10mm Spacer(No1) to the thread over the EPS-Proto module
2. Add 12mm Spacers(No2) to the rest

Personnel

Date

Signature



Z
X
Y

