**Manual**

Component

1. STR\_1.5U\_Base 1 Piece

A black square frame with white background

AI-generated content may be incorrect.A square frame with red circles

AI-generated content may be incorrect.

1. STR\_1.5U\_Top 1 Piece

A black square frame with a white background

AI-generated content may be incorrect.A black square frame with red circles

AI-generated content may be incorrect.

1. STR\_1.5U\_Side-Frame 4 Pieces

A black post with metal handles with Christ the Redeemer in the background

AI-generated content may be incorrect.

1. Payload IOT00X 1 Piece

A grey electronic device with yellow buttons

AI-generated content may be incorrect.

1. Subsystem EPS10200X 1 Piece

A grey electronic device with many ports

AI-generated content may be incorrect.

1. Subsystem COM10200X 1 Piece

A grey electronic device with ports

AI-generated content may be incorrect.

1. Subsystem MTQ 1 Piece

A computer chip with a square green and white square

AI-generated content may be incorrect.

1. Subsystem MTQ Sensor 1 Piece

A white square object with a square object in the middle

AI-generated content may be incorrect.

1. Subsystem Antenna\_Deployment

A black square object with a white background

AI-generated content may be incorrect.

1. External\_Port\_Panel 1 Piece

A close-up of a device

AI-generated content may be incorrect.

1. Solar\_Panel X-Minus 1 Piece

A black rectangular object with white stripes

AI-generated content may be incorrect.A rectangular wall with black and grey sockets

AI-generated content may be incorrect.

1. Solar\_Panel Y-Plus 1 Piece

A black rectangular object with white stripes

AI-generated content may be incorrect.A white rectangular object with black rectangular objects

AI-generated content may be incorrect.

1. Solar\_Panel Y- Minus 1 Piece

A black and white rectangular object with white stripes

AI-generated content may be incorrect.A rectangular object with black and yellow rectangular objects

AI-generated content may be incorrect.

1. Solar\_Panel Z- Minus 1 Piece

A black and white rectangular object

AI-generated content may be incorrect.

1. Spacer Axis 4 Pieces

A white object with a red handle

AI-generated content may be incorrect.

1. Spacer 4 mm. 4 Pieces

A roll of tape with a black border

AI-generated content may be incorrect.

1. Spacer 10 mm. 4 Pieces

A roll of tape with a black border

AI-generated content may be incorrect.

1. Spacer A-D 1 set mm.
2. Ultra Low Head Cap Screws M2.5x3 16 Pieces

A white object with a round object

AI-generated content may be incorrect.

1. Ultra-Low Head Hexalobular Socket Head M2.5x5 28 Pieces

A white object with a hole

AI-generated content may be incorrect.

**Assembly Procedure for External Panel**

1. Connect Raspbessy Pi Camera with Camera Jig

* Use 4 x CSPPN1P-BRN-M1.6-8 and 4 x HNT1EB-BR-M1.6

A black and green device with white pins

AI-generated content may be incorrect.

A black and green metal object

AI-generated content may be incorrect.

1. Connect the camera with jig and solar panel

A rectangular object with black and white designs

AI-generated content may be incorrect. A white rectangular object with yellow screws

AI-generated content may be incorrect.

A black and green device attached to a white rectangular object

AI-generated content may be incorrect.

* Use 4 x SSTS-M3-8 with 4 x SLBNR3 and tighten them

A black and green metal object with screws attached to it

AI-generated content may be incorrect.

A close-up of a device

AI-generated content may be incorrect.

A close-up of a device

AI-generated content may be incorrect.

A close-up of a device

AI-generated content may be incorrect.

1. Place the GPS module on the solar panel

A close-up of a device

AI-generated content may be incorrect.

* Put the epoxy at the corner of GPS module in order to secure the location of module on solar panel

A close-up of a machine

AI-generated content may be incorrect.

A close-up of a machine

AI-generated content may be incorrect.

A white rectangular object with black and white circles

AI-generated content may be incorrect.A computer circuit board with wires and switches

AI-generated content may be incorrect.

**Satellite Assembly Procedure**

1. Put 4 spacers axis into holes on STR\_1.5U\_Base. We will define each spacer axis position by following picture.

A black square with white poles

AI-generated content may be incorrect.A black square with red circles

AI-generated content may be incorrect.

1. Place EPS10200X on STR\_1.5U\_Base

A computer box with wires

AI-generated content may be incorrect.

1. Place MTQ on EPS10200X

A computer device with a green square and wires

AI-generated content may be incorrect.

1. Place 4 Spacers 10 mm and 4 mm on MTQ

A computer hardware with many antennas

AI-generated content may be incorrect.

1. Place COM10200X on spacer 14 mm

A computer chip on a shelf

AI-generated content may be incorrect.

1. Place IOT00X on COM10200X

A computer hardware with many wires

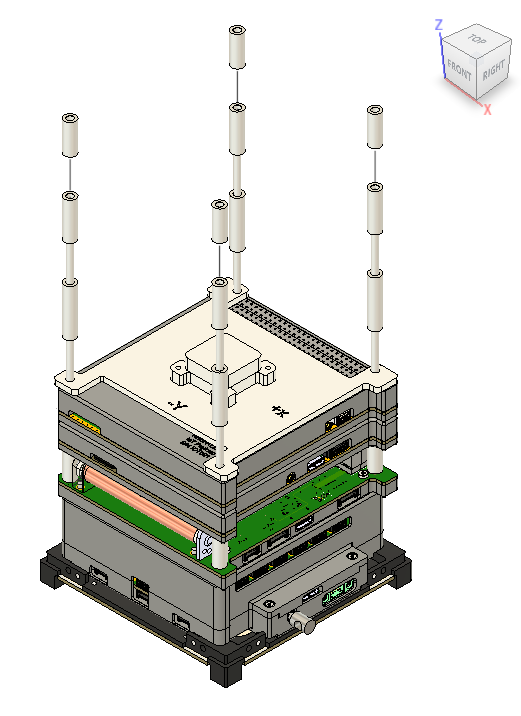
AI-generated content may be incorrect.

1. Place MTQ Sensor on IOT00X

A computer hardware with many wires

AI-generated content may be incorrect.

1. Place Spacer set A-D on MTQ Sensor by match set and Spacer Axis Posiotion



1. Place 4 STR\_1.5U\_Side-Frame to STR\_1.5U\_Base

A computer device with black handles

AI-generated content may be incorrect.

1. Tighten 4 of STR\_1.5U\_Side-Frame and STR\_1.5U\_Base with 8 of Ultra Low Head Cap Screws M2.5x3

A computer generated model of a machine

AI-generated content may be incorrect.

1. Place STR\_1.5U\_Top on Spacer Axis

A computer equipment with a square frame

AI-generated content may be incorrect.

1. Tighten 4 of STR\_1.5U\_Side-Frame and STR\_1.5U\_Top with 8 of Ultra Low Head Cap Screws M2.5x3

A computer hardware in a cube

AI-generated content may be incorrect.

1. Remove 4 of M2x6 bolts on Antenna\_Deployment Cover

A black rectangular object with a black square object with a black square object with a black square object with a black square object with a black square object with a black square object with a black square object

AI-generated content may be incorrect.

1. Remove Antenna\_Deployment Cover

A computer generated image of a green and black piece of electronics

AI-generated content may be incorrect.

1. Tighten 8 of M2.5x8 bolts from Antenna\_Deployment to STR\_1.5U\_Top

A computer game with a green square and black frame

AI-generated content may be incorrect.

1. Close Antenna\_Deployment Cover

A computer hardware box with a black cover

AI-generated content may be incorrect.

1. Tighten 4 of M2x6 bolt on Antenna\_Deployment Cover

A black and white computer device

AI-generated content may be incorrect.

1. Put RBF into EPS10200X

A computer tower with many parts

AI-generated content may be incorrect.

1. Connect all wires following Electrical Interface Document
2. Flip Satallite
3. Attch a wire between Solar\_Panel Z-Minus and EPS10200X module
4. Tighten 4 of Ultra-Low Head Hexalobular Socket Head M2.5 bolts to Solar\_Panel Z-Minus

A computer equipment on a stand

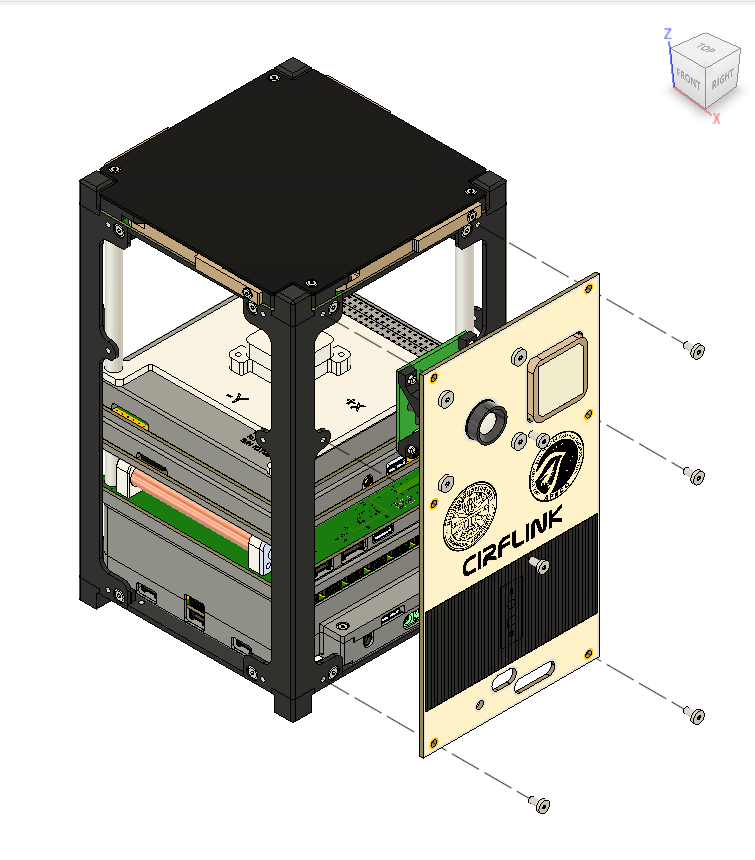
AI-generated content may be incorrect.

1. Flip Satallite
2. Remove RBF

A computer tower with many parts

AI-generated content may be incorrect.

1. Attach a wire between External\_Port\_Panel and EPS10200X module
2. Tighten 6 Ultra-Low Head Hexalobular Socket Head M2.5 bolts to External\_Port\_Panel

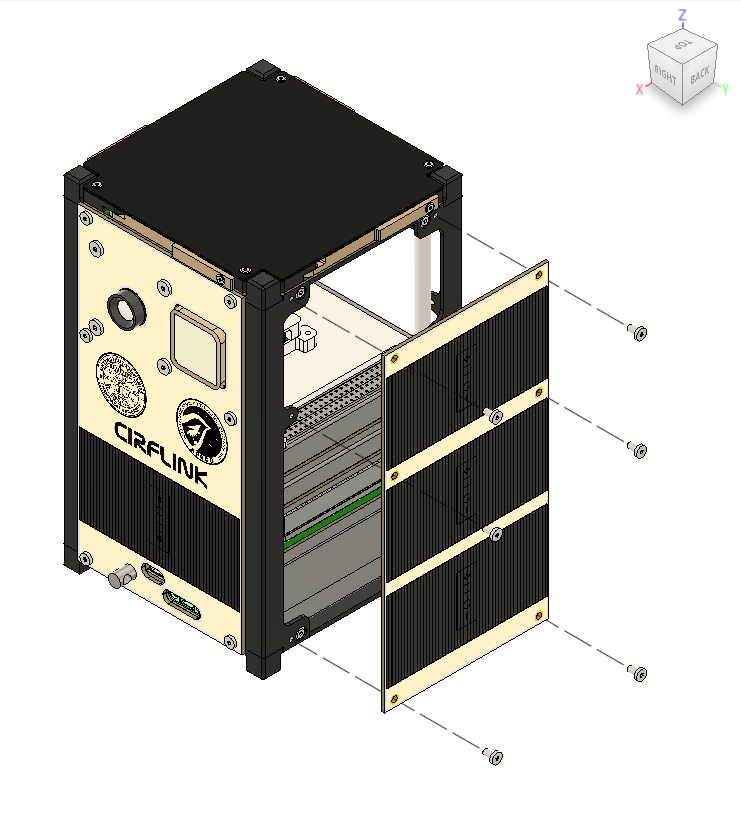


1. Put RBF into Satellite

A computer tower with a white box and a black box with a white box and a black box with a white box with a black box and a black box with a white box with a black box

AI-generated content may be incorrect.

1. Attach a wire between Solar\_Panel Y-Plus and EPS10200X module
2. Tighten 6 Ultra-Low Head Hexalobular Socket Head M2.5 bolts to Solar\_Panel Y-Plus



1. Attach a wire between Solar\_Panel Y- Minus and EPS10200X module
2. Tighten 6 Ultra-Low Head Hexalobular Socket Head M2.5 to bolts Solar\_Panel Y-Minus

A computer box with a door open

AI-generated content may be incorrect.

1. Attach a wire between Solar\_Panel X-Minus and EPS10200X module
2. Tighten 6 Ultra-Low Head Hexalobular Socket Head M2.5 to bolts Solar\_Panel X-Minus

A computer tower with open doors

AI-generated content may be incorrect.

**Antenna Folding Procedure**

A green square with black parts on a wooden surface

AI-generated content may be incorrect.

1. Bend the antenna and close the door

A hand holding a green and black piece of electronic equipment

AI-generated content may be incorrect.

1. Fold the antenna completely as a picture below

A hand holding a green device

AI-generated content may be incorrect.

1. Take a thumb screw (M2x8) and tighten it

Hands holding a small green device

AI-generated content may be incorrect.

Hands holding a green device

AI-generated content may be incorrect.

1. Repeat the procedure No.1, 2, and 3.

A square green and black device

AI-generated content may be incorrect.

* The final results shall be the same as picture.