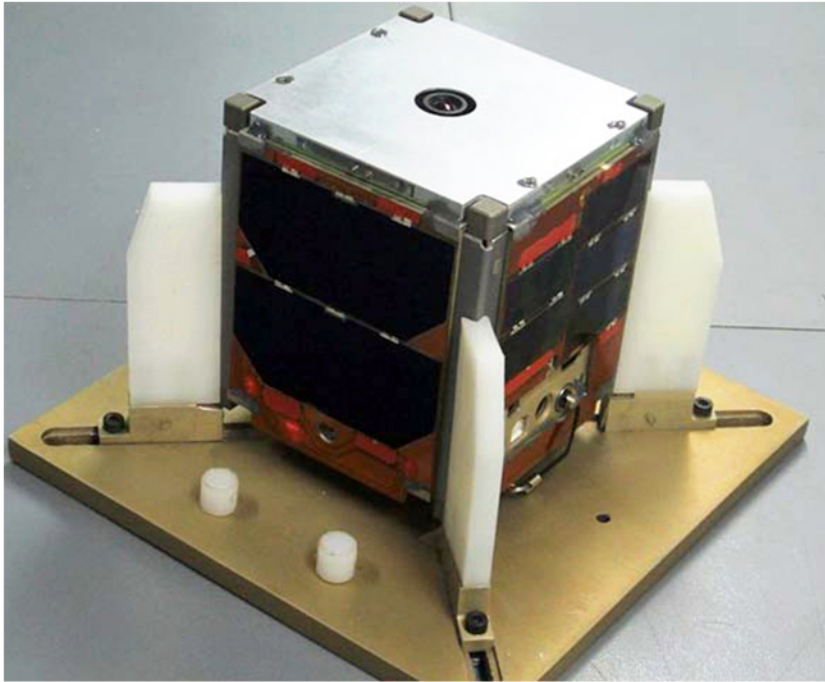


iCube-1



iCUBE-1 is Pakistan's first Cubesat satellite was launched on November 21, 2013, on board a Dnepr launch vehicle from Yasnny launch base in Dombrovsky, Russia. IST (Institute of Space Technology) has etched its name among the foremost universities in the World and the only University in Pakistan who have built and launched a Cubesat satellite.

It houses several sensors to collect data for scientific purposes. iCUBE-1 is a fully autonomous satellite and is capable of maintaining its health via its on-board computer. It is a single-unit CubeSat, cubic in shape with sides of 10 centimetres (3.9 in).

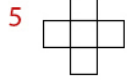
Five sides of the satellite carry two triple-junction (ATJ) solar cells, providing the spacecraft with 2 watts of power.

Cube-1 carries a camera with a resolution of 640 by 480 pixels and also carries CW and AX25 beacons.

iCUBE-1 transmits a Continuous Wave Morse coded beacon with message "iCUBE-1 First CubeSat of Pakistan". Amateur radio operators have a great opportunity to hear those signals on the VHF band. The satellite will send its health data to ground stations and can also be commanded from Satellite tracking and Control Station at IST.

iCube-1

Color back black

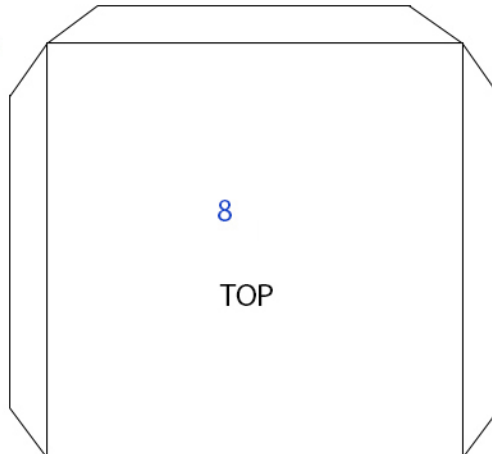


6

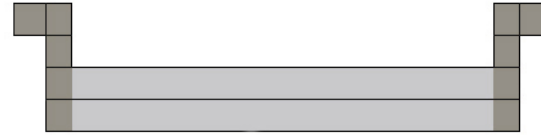
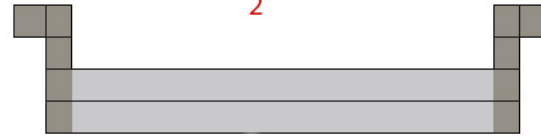


Color back black

1

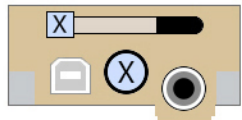


2



3

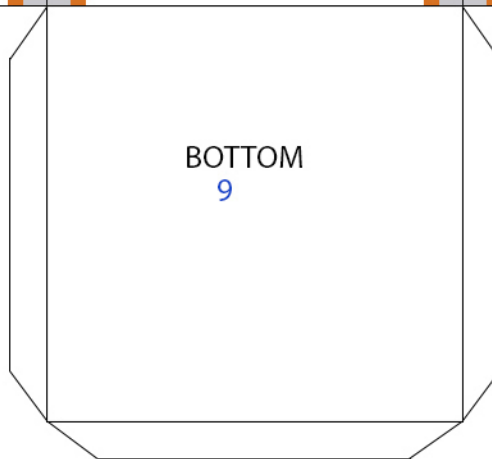
Cut out the light blue areas



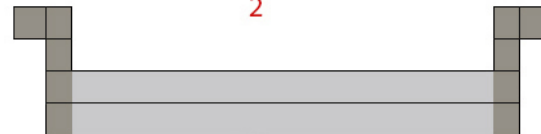
4

4

4

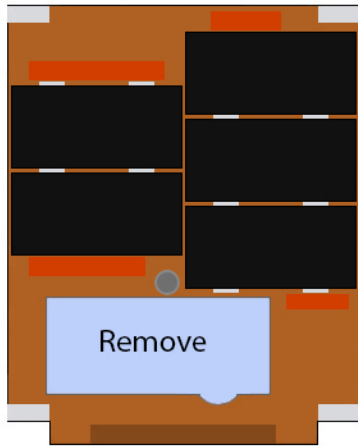


2

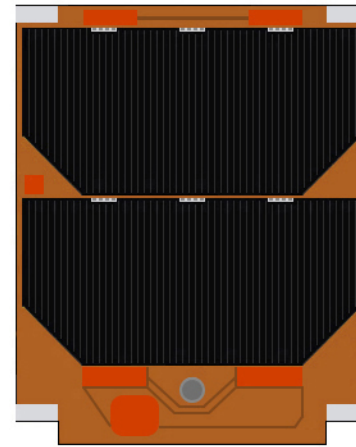
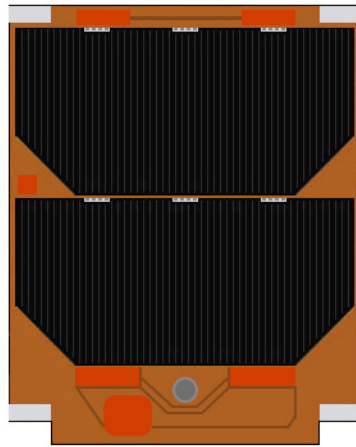
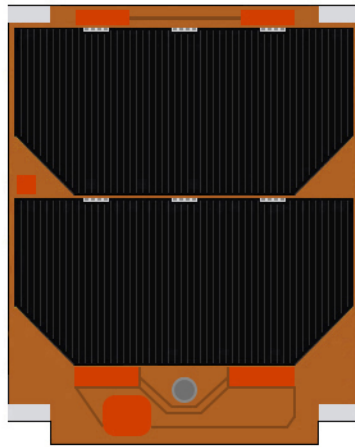


iCube-1

3



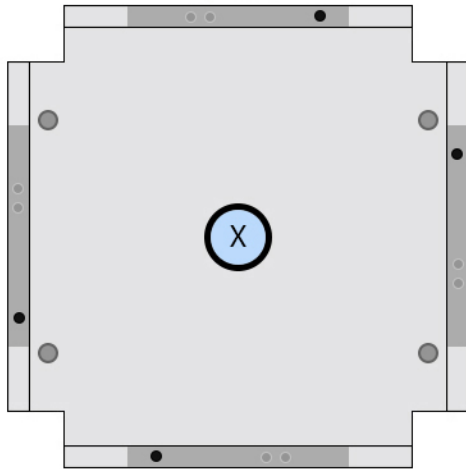
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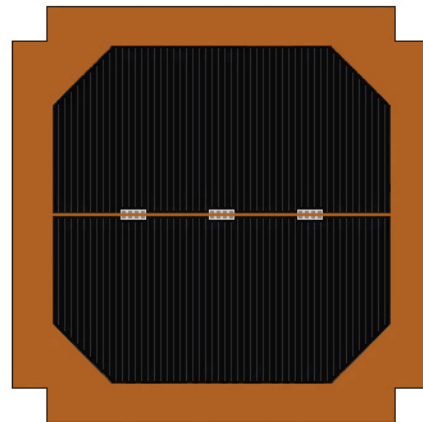
7

Color back black

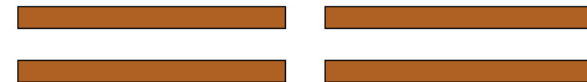
8 TOP



9 BOTTOM



10



Optional Detail parts

