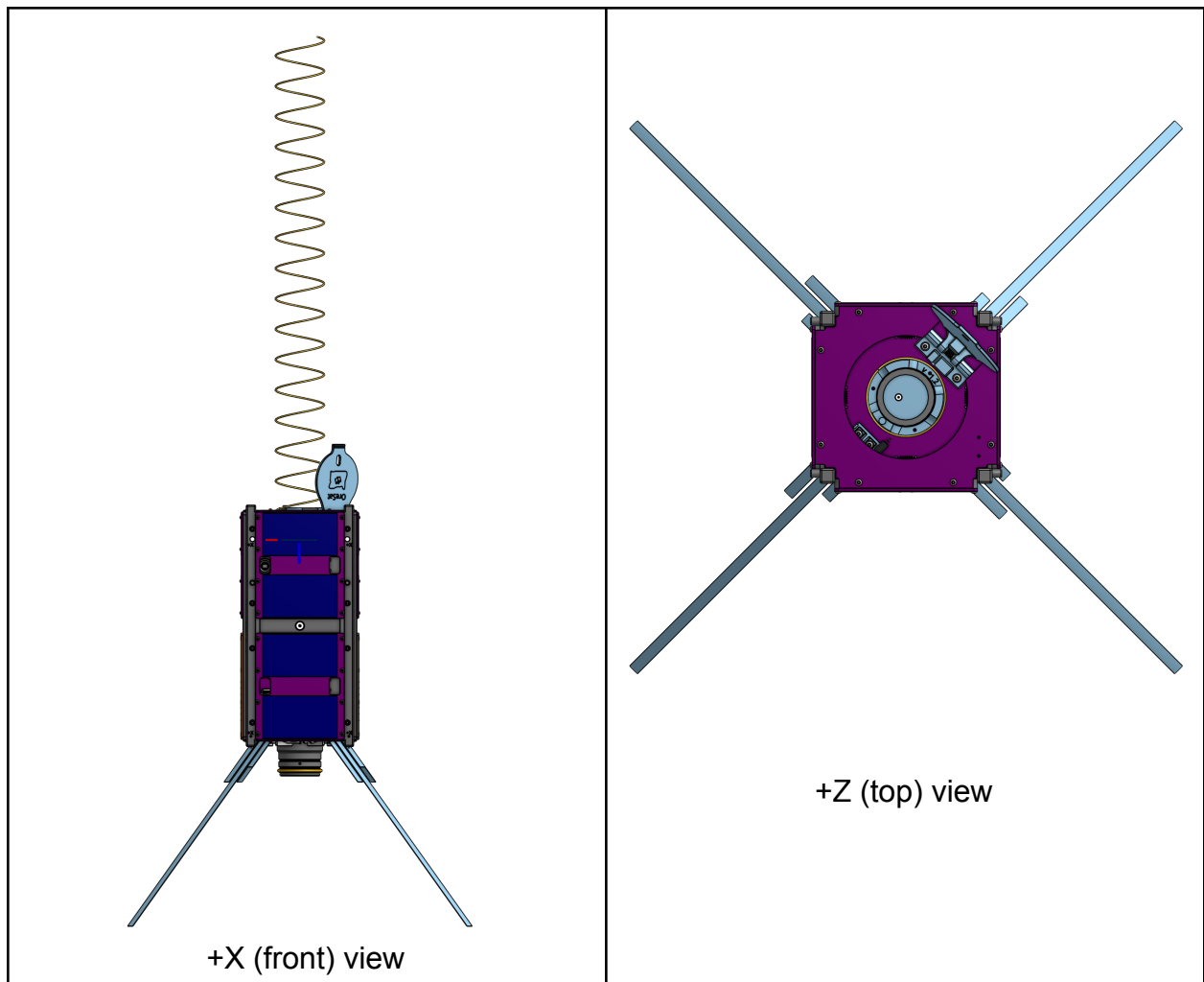
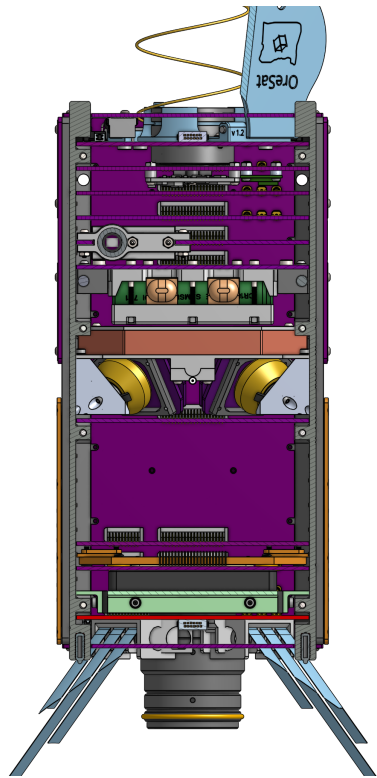


OreSat0.5 Structure

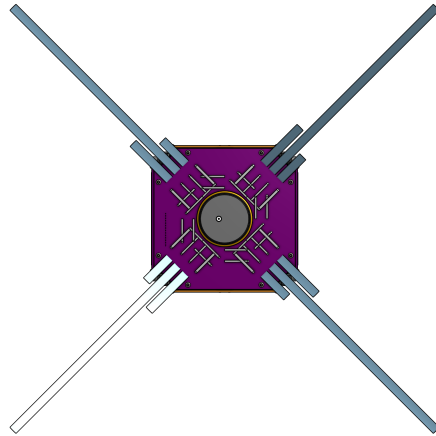
2022-12-28

OreSat0.5 is a 2U CubeSat that meets the requirements of the CubeSat Developers Specification (CDS) Rev 13. The frames hold 10 independent printed circuit board "cards". Two solar panels are attached on each of the four outer sides of the frames. A deployable tri-band (UHF, L band, and L1 band) turnstile antenna is mounted on the -Z face, made of four individual tri-band antenna elements at an angle of 15 degrees from the -Z face and with a length of 220 mm each. A helical antenna mounted to the +Z face with a diameter of 40 mm and an approximate deployed length of 608 mm with 15 turns.





+x (front) section view
showing card and backplane



-Z (bottom) view