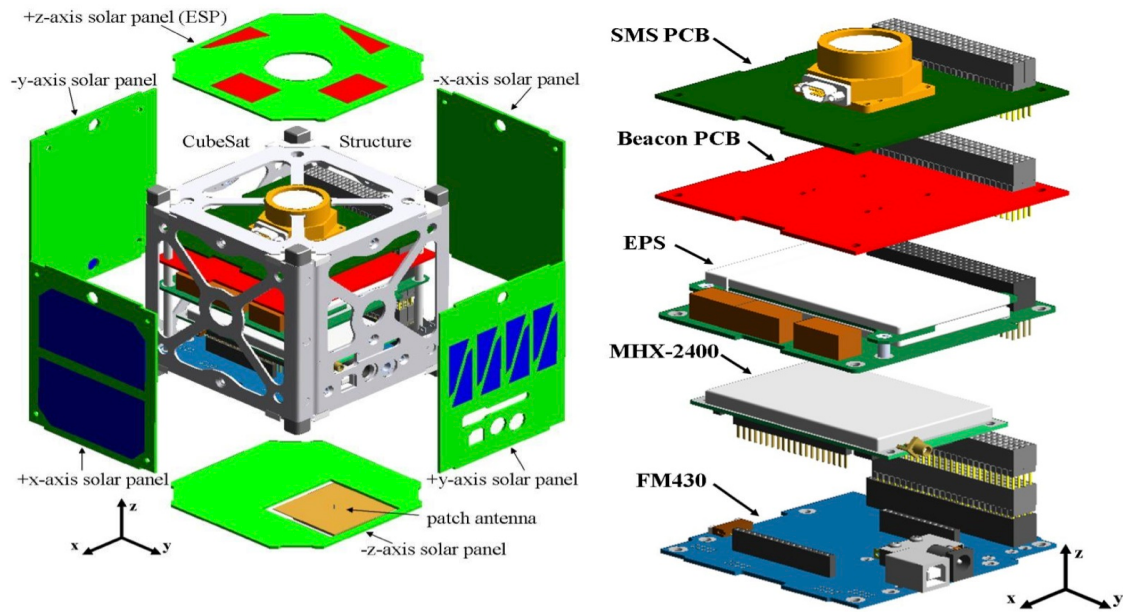


NPS-SCAT CubeSat Description

NPS – 1U



The NPS-SCAT satellite is a solar cell array tester using the CubeSat form factor which will measure the characteristics of solar cells and how they degrade over time in the space environment. It focuses on using COTS components to the largest extent possible by employing off the shelf C&DH, S-band radio, and EPS. NPS-SCAT represents initial capability permitting involvement in more complicated projects in the future such as Space Situational Awareness and others.

The satellite utilizes a communication system which is necessary to uplink commands and downlink data containing spacecraft health as well as payload test results.