## Nano Satellite Configuration Report

Configuration Name: 9U

Description: 10 x 20 x 45 cm: Optimized for scientific experiments and multi-payload

setups with high demands for volume and power. User Selected Configurations for Nano satellite

Payload Mass: 2 kg Pointing Precision: base Propulsion: No propulsion

Downlink Data Rate: Base - 3Mbps

Payload Duty Cycle: 32%

Payload Power Consumption: 4 W

## **Subsystem Configuration:**

Component Light Config Mid Config Max Sensign: Output: 35W, 55x55 cm Output: 70W, 90x90 cm Solar Panel Capacity: 14000mAh, Voltageanawty: 28000mAh, Voltage Battery Frequency: 2000MHz, Power Prest Wency: 2600MHz, Power **Transmitter** Gain: 10dBi, Circular Polariz ation: 12dBi, Linear Polarizati Antenna Gyroscope Range: ±900°/s, Sensitivity: Range: ±900°/s, Sensitivity Torque: 0.055Nm, Speed: 70003886/0.11Nm, Speed: Reaction Wheel Dipole: 0.5Am<sup>2</sup>, Power: 0.5WDipole: 0.8Am<sup>2</sup>, Power: 0.8W Magnetorquer Accuracy: ±0.06°, FOV: 35° Accuracy: ±0.05°, FOV: 40° Star Tracker MLI Passive, 30°C to 150°C Heater Active, 20°C to 170° Thermal Control 60MP, FOV: 200° Payload Camera 30MP, FOV: 170°