

# EFTP

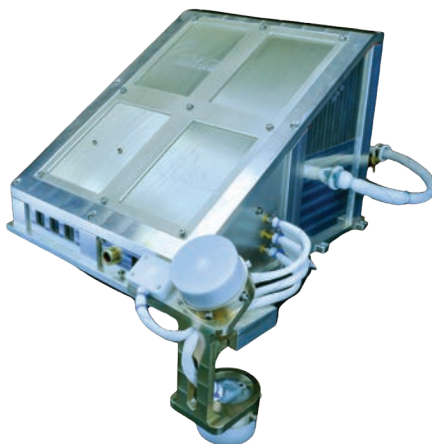
## EXTERNAL FLIGHT TEST PLATFORM



### » HIGHLY RECONFIGURABLE TESTING PLATFORM

EFTP offers unique opportunities to conduct microgravity research in space. EFTP provides the ability to develop, test, and fly experiments, hardware, materials, and advanced electronics onto the ISS at a reduced cost and schedule

- » Rapid On-orbit Testing and Return
- » Increase Technology Readiness Levels (TRL)
- » Ability to perform detailed post-mission analysis of effects of the space environment



### >> TECHNICAL SPECS

<b>Total Internal Volume</b>	up to 1100in <sup>3</sup> * (payloads NOT required to conform to CubeSat form factors)
<b>Power</b>	28V Bus (12V, 5.5V, 3V available)
<b>Viewing Options</b>	Nadir (Earth-pointing), Wake (Aft-pointing), and Limb (Horizon-pointing)
<b>Deployment Period</b>	15 Weeks
<b>Dimensions</b>	13.8" x (L) x 15.0" (W) x 10.3" (D)

### POTENTIAL PAYLOADS

- » **REMOTE SENSORS**
  - » HYPERSPECTRAL IMAGERS
  - » IMAGING INFRARED RADIOMETER
  - » SYNTHETIC APERTURE RADAR (SAR)
  - » TOPOGRAPHIC MAPPING LASER
  - » INFRARED SPECTROMETER
- » **COMMAND AND DATA HANDLING (C&DH)**
  - » SINGLE BOARD COMPUTERS (SBC)
  - » DIGITAL I/O CARDS
  - » DATA ACQUISITIONS (DAQ) UNITS
- » **RADIO FREQUENCY HARDWARE**
  - » RECEIVERS, TRANSMITTERS, AND TRANSCEIVERS
  - » SOFTWARE DEFINED RADIOS
  - » ASYMMETRIC LASER COMMUNICATIONS
  - » LOW NOISE AMPLIFIERS (LNA)
  - » LOW NOISE BLOCK DOWN CONVERTER (LNB)
  - » BAND-PASS FILTERS
  - » OSCILLATORS
- » **ANTENNAS**
  - » PHASED ARRAY ANTENNA
  - » QUADRIFILAR HELIX ANTENNA
  - » ULTRA-HIGH FREQUENCY (UHF)
  - » CROSSED DIPOLE ANTENNA
- » **OTHER**
  - » SOLAR CELLS
  - » SUN SENSORS
  - » STAR TRACKERS
  - » THERMOCOUPLES
  - » MAGNETOMETERS
  - » MATERIAL SAMPLES