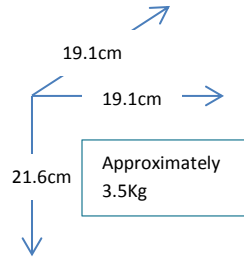




The World's Only Training Satellites

GEN 5 Product Data Sheet



	September 2015

User Guide	Delivered electronically
Control Panel (GUI), KEY MODE 1	Delivered electronically
Firmware updates	Accessible online when available
EyasSat Structural Aluminum and Acrylic Panels	Includes 2, Remove Before Flight Panels
Lifting Fixture	
Suspension Stand	
GSE Power Box	
GSE Radio	2.4Ghz
Breakout Box	for subsystem studies
9V Power Supply	
5V Power Supply	
Jumper	For bypassing SEP Switch and/or setting comm to loopback mode
Arming Plug	For operating on battery power
Magnetorquer Board with counter weights, bottom (B) sun sensor and SEP SWITCH	
Power Distribution Board (PDB) with rechargeable battery pack	
Configurable Solar Array	Configurations = 2s3p, 3s2p
Battery Charger	Always Set to 7.4
Command & Data Handling (C&DH) Board with Ambient Thermistor Attached	Master board/subsystem
Communication (COMM) Board with Radio Attached	
Attitude Determination and Control (ADCS) Board with Reaction Wheel Assembly	Single axis attitude control about the Z axis

Top Sun/Yaw Sensor Assembly	For attitude control studies
Thermal Panel with black and white Aluminum Surfaces and Heat Pipe & Copper Rod	For thermal control studies
Serial-USB Connection	For umbilical communication
6, 8, & 14 pin ribbon cables	For use with breakout box
Compass	
Rare Earth Magnet	
LED Flashlight	
Anti-Static Kit and Gloves	
Nanuk Case with Custom Foam Packing	

Ask about Advanced Control Modes:

Multiple User Socket

CSV Data Logging

Simulator Mode

Other optional accessories:

Kapton Tape for further thermal studies

Transducer Board for determining center of gravity using resistance