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OPTION SHEET FOR NanoSat 16U Satellite Platform Kit

Customer Product ID: _____ (optional, enter your reference here)

Order number: _____

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1. Configuration Table

Propulsion	
	Select
ThrustMe NPT30-I2-1U (additional cost and requires 2x TSP-45W and minimum one additional BP8)	
No Propulsion	

Star Tracker	
	Select
Sodern Auriga Star Tracker (additional cost)	
No Star Tracker	

Solar Panels	
	Select
1x NanoPower TSP-45W Tracking Solar Panel	
2x NanoPower TSP-45W Tracking Solar Panels (additional cost)	

Additional Battery Packs	
One NanoPower BP8 is included in the standard kit	**Select**
Numbers of additional NanoPower BP8 (additional cost)	0

Note 1: Each battery pack is limited to input/output currents up to 4A. To achieve the maximum power output performance of the platform Electric Power System of 12A, three battery packs are required (1 Default + 2 Optional)

Payload Power Channels	
Subsystems	**Select**
Default • See *NanoSat Default Payload PDU Option Sheet (doc. number 1067969)*	
Custom • Tailor *NanoSat Default Payload PDU Option Sheet (doc. number 1067969)*	

Payload Harness	
Flying leads (additional cost)	
No Payload Harness	

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2. Propulsion System Configuration

The Platform Kit can be equipped with an optional Electric Propulsion system to allow orbital maneuvers. If the Propulsion option is selected, the Platform Kits include the relevant mounting bracket, coverplates, harness and software to fully integrate the instrument.
The Propulsion system itself occupies roughly 1U of volume. However, its bracket occupies roughly 2U of volume, with two 0.5U of volume on each side of the Propulsion system available to mount additional hardware.
Altogether, the Propulsion option adds roughly 2kg of mass to the platform, including roughly 200g of propellant.

If the Propulsion option is selected, the Platform Kit must be configured with 2x NanoPower TSP Tracking Solar Panels and a minimum of 2x NanoPower BP8 battery packs.

3. Star Tracker Configuration

The Platform Kit can be equipped with an optional Star Tracker to increase attitude determination and control performance. If the Star Tracker option is selected, the Platform Kits include the relevant mounting bracket, coverplates, harness and software to fully integrate the instrument.
The Star Tracker occupies roughly 1U of volume and adds roughly 0.45kg of mass to the platform.

4. Solar Panels Configuration

The Platform Kit comes equipped with either one or two deployable wings of tracking solar panels, the NanoPower TSP-45W.
In the configuration with a single NanoPower TSP-45W, the other panel is replaced by a body-mounted 16-cells solar panel (NanoPower MSP-B-8-2).

5. Additional Battery Packs Configuration

By default, the platform contains a single 8-cells battery pack, the NanoPower BP8. Up to 2 additional battery packs can be added as optional (including wiring). Each additional battery pack occupies roughly 0.5U of volume and adds roughly 0.5kg of mass to the platform.

6. Payload Power Channels Configuration

The Platform Kit is equipped with a NanoPower P80 satellite power supply. The NanoPower P80 is equipped with 2 Power Distribution Unit (PDU), each providing up to 24 independently controlled power channel outputs. One PDU is dedicated to power the platform subsystems, while one PDU is dedicated for payload subsystems.

While a default configuration is available, the Payload PDU can be fully configured via a dedicated Option Sheet to deliver the required power channels for the payload(s). The Platform PDU is not configurable.

7. Payload Harness Kit

Upon request, a Payload Harness Kit with Flying Leads can be included in the Platform Kit to connect the Payload(s). The Payload Harness Kit includes:

- 2x SpaceWire cables for data transfer
- 7x power cables for power delivery

Note: 1x Control Bus cable with flying leads is included in the Platform Kit regardless of the selection made for the Payload Harness Kit option and includes a dedicated Payload CAN bus, as well as PPS and sync signals.

The Payload Harness Kit cables are all 600mm long, with uncrimped flying leads on the Payload(s) side.

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