

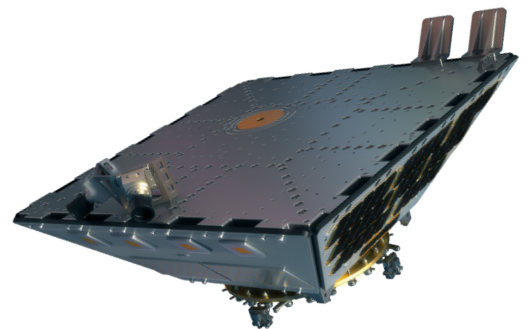
BAE Systems Satellite Platform - P10



The BAE Systems satellite platform P10 is a compact spacecraft solution designed for payload accommodation flexibility at an affordable price with full redundancy. The P10 is a very capable small satellite, offering a rapid schedule to meet demanding mission requirements.

Key Features

- Compact design
- Payload flexibility at an affordable price
- Payload Mass 35 kg



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Technical Specification

Parameter	Capability
Mission Design Level	
Orbit Type	Low Earth Orbit
Altitude	400-600 km
Inclination	0° to 97.8°
Mission Lifetime	5 Years
Platform Level	
Max Wet Spacecraft Mass (Platform, Payload, Propellant)	140 kg
Stowed Spacecraft Dimension (LxWxH)	0.9 m x 0.9 m x 0.9 m
Launcher Compatibility	Rideshare options including: Falcon 9 (Full Plate, Full Plate-XL)
Redundancy	Redundant platform avionics
Power Generation (500km SSO with 10:30 LTAN)	Nadir: >33W OAP Sun Pointing: >48W OAP
Battery Capacity / Voltage	432 Wh 28V (±4V)
Stabilisation Method	3-axis
Pointing Modes	Nadir, Sun, and Inertial Pointing; Static Ground Target Tracking; Forward Motion Compensation
Attitude Absolute Knowledge Error	0.05° 3σ (half-cone)
Attitude Absolute Pointing Error	0.16° 2σ (half-cone)
Positional Accuracy	10 m
Propulsion System	Electric Propulsion
Propulsion Total Impulse / Thrust / ΔV	15 kNs / 10μN to 1mN / 107 m/s
Command and Telemetry	S-Band Uplink: 128 kbps Downlink: 512 kbps
High Speed Downlink	X-Band Downlink: 150 Mbps
On Board Storage	2TB
Payload Level	
Payload Mass Capability	35 kg
Payload Volume Capability (LxWxH)	0.7 x 0.7 x 0.40 m
Payload Field of View	Hemispherical open concept
Number of Payloads	Typically up to 6 payloads possible
Payload Switch Voltages Available	Unregulated: 28V (±4V) Regulated: 3.3V, 5V, and 12V
BOL OAP Payload Power	Nadir: >13W OAP Sun Pointing: >20W OAP
Payload Interfaces	RS422, CAN, LVDS, Ethernet

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Find out more by
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