

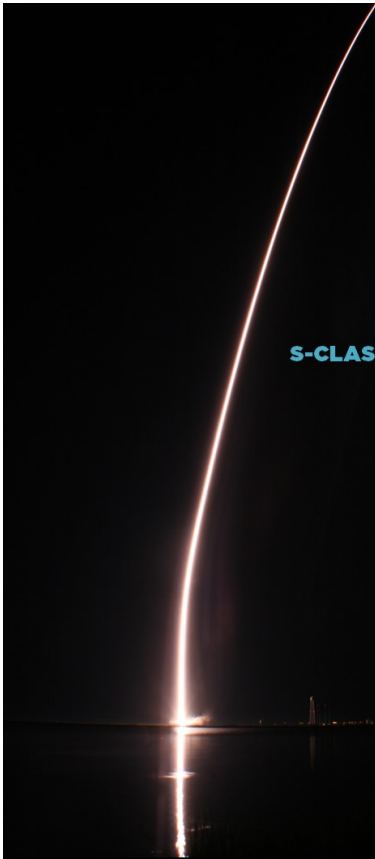
**YORK**  
SPACE SYSTEMS

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## S-CLASS

The S-Class platform leverages a proprietary design to reduce the cost of manufacture by an order of magnitude. The S-CLASS platform is a 3-axis stabilized spacecraft capable of supporting 85kg payloads with up to 100W of Orbit Average Power (OAP). Designed for mass manufacture and intended for constellations, the S-CLASS supports a wide range of missions including earth observation, weather, and communication; and is capable of steady state operation in any orbit inclination and orientation without redesign. The platform form factor can leverage existing ride-share opportunities on ESPs, or can be adapted to any of the numerous dedicated small launch vehicles currently under development to significantly reduce launch segment costs.

<b>S-CLASS</b>	
Availability (Time to Payload Integration):	<1 day**
Launch:	ESPA & Dedicated Launch
Bus Mass:	65 kg
Attitude Control System:	3-Axis Stabilized (RWs & Torque Rods)
Beta Angle Range:	-90° to 90°
Altitude:	LEO
Orientation (Mission Ops Constraints):	None w/ SA Gimbal
Pointing Knowledge:	25 arcsec <i>(minimum expected performance)</i>
Pointing Control:	25 arcsec <i>(minimum expected performance)</i>
Slew Rate:	1.5 deg/sec
Standard Comm:	S-Band Up/Down X-Band Down (50 Mbps)
	Optional: Laser Comm Downlink (up to 1 Gbps) BridgeSat Compatible
Availability (Max Payload Mass):	85 kg (15" ESPA)
Mechanical Mount:	22.5" x 22.5", Flat Plate
Max Payload OAP:	100 W
Payload Thermal Interface:	10 to 23 °C Thermal Sink Accepting up to 100 W OAP



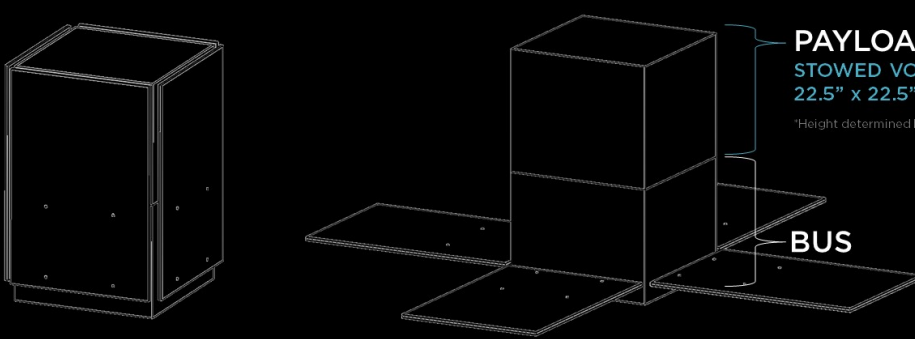
# PRICING

**S-CLASS:** \$675K-\$1.6M

**S-CLASS OPTIONS:**

- Second Star Tracker (2 total)
- Dedicated Payload Flight Computer
- Dedicated Payload Mass Memory (16 GB) & Transmitter Interface
- Enhanced Power System (3,000 W Peak, high life cycle)
- Laser Communications Downlink Terminal (1 Gbps)
- Field Effect Electric Propulsion (FEED)

# LAUNCHSTOWED

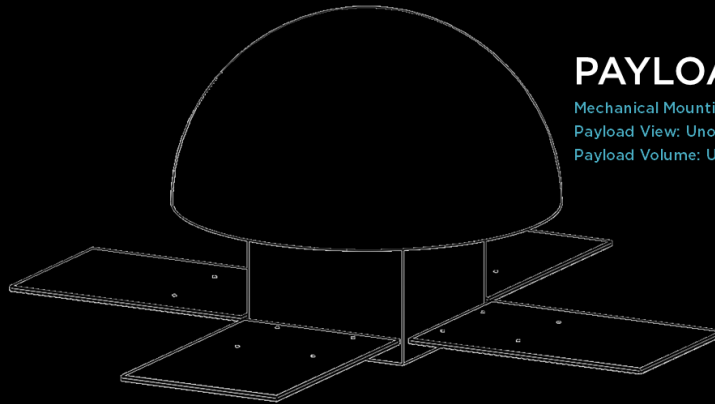


**FULL SPACECRAFT**  
LAUNCH CONFIGURATION

**PAYLOAD**  
STOWED VOLUME  
22.5" x 22.5" x 18.9"\*  
\*Height determined by launch vehicle

**BUS**

# POST SEPARATION DEPLOYED



## PAYLOAD

Mechanical Mounting: 22.5" x 22.5" Flat Al Plate  
 Payload View: Unobstructed Hemisphere  
 Payload Volume: Unrestricted above Bus Interface

**FULL SPACECRAFT**  
 DEPLOYED CONFIGURATION

**YORK**  
 SPACE SYSTEMS



## BRIDGESAT LASER UPGRADE OPTION for S-Class

1 Gbps Downlink Rate  
 25W Peak, 5W Standby  
 S-Class Full Compatibility

## GROUND NETWORK SITES

2016:	1
2017:	10
2018:	30+



## Contact Us:

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