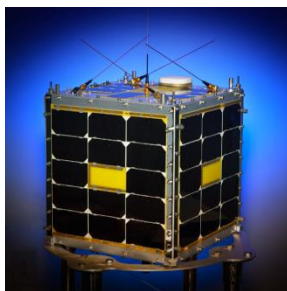


## Hosted Payload Opportunities



AprizeSat Microsatellite

SpaceQuest offers low-cost hosted payload opportunities on its space proven AprizeSat series of microsatellites. Each AprizeSat microsatellite offers:

- 13 Kg, 25 cm cubic chassis
- Orbital lifetime up to 10 years
- Hosted payload module (module can be expanded if required)
- Autonomous operations
- Store-and-forward data collection
- Ground Stations to collect and process mission data
- Launch on Dnepr rockets providing reliable and benign space access

### Standard Hosted Payload Accommodation

<b>Overall Payload Space</b>	220mm x 200mm x 36mm
<b>Power Available</b>	~2 Watts continuous; 30 Watts peak
<b>Voltage Supply</b>	7 to 9 Volt unregulated battery bus
<b>Date Interfaces</b>	SPI, Serial, I <sup>2</sup> C, RS-232
<b>Logic Levels</b>	3.3 Volts
<b>Inputs/Outputs</b>	8 lines to/from Flight Computer
<b>Temperature</b>	-10°C to +40°C
<b>Launch Environment</b>	See Dnepr User's Manual ( <a href="http://www.kosmotras.ru/en/">http://www.kosmotras.ru/en/</a> )
<b>Electrical Interface</b>	Any combination of DB-25, DB-15 or DE-9, plus SMAs
<b>Mechanical Interface</b>	4:40 mounting hardware into 2mm aluminum base plate
<b>Data Storage</b>	Up to 8 Mbytes of payload data storage in Flight computer
<b>Telemetry</b>	Two thermistor temperature channels Four 12-bit, 0-3 Volt, Analog to Digital channels Up to 1 sample/second
<b>External Access</b>	Various access ports available on all spacecraft faces
<b>Command Uplink</b>	Up to 9600 bps data upload in UHF band
<b>Data Collection</b>	Up to 400 Kbps download in S-band
<b>SpaceQuest Furnished Services</b>	Hosted payload module Technical support and integration engineering Launch into orbit on Dnepr rocket On-orbit checkout and mission operations
<b>Schedule</b>	Contract nine months prior to launch Customer payload delivery three months prior to launch
<b>Launch Opportunities</b>	2016

\*Specifications are subject to change without notice.

### About SpaceQuest

SpaceQuest is recognized for development and rapid turnaround of advanced microsatellites and space systems since 1994. SpaceQuest has experience on over 40 satellites and 8 launch campaigns. It provides AIS data services using its own microsatellite constellation. Customers span government, commercial and academia, both domestic and foreign, including NASA, Air Force, Navy, Canadian Space Agency, Bigelow Aerospace and the UHF Communications System for the SpaceX Dragon capsule and ISS.

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