LSP Small Payload Access to Space Catalog

SALMON-3 MO PEA M (2018 Heliophysics Science) Final; August 15, 2018

Reduction of PEA Cost Cap	Volume (interface)	Payload Max Launch Mass	Orbits	Availability of Opportunities (H/M/L)	Launch Vehicles	LV Risk	Comments
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CubeSats

	In the second									
10		no charge	10×10×11.35 cm	*1.33 kg		400-500km @	High	ISS (Dragon/Cygnus)	G	all LVs and accommodations are operational
3U		no charge	12 x 12 x 36 cm	*4 kg		↓ 51.6deg circ for ISS or Cygnus deploy	Medium	Atlas V / Falcon 9	G	LV is LSP Certified;
6U		no chrg to ISS orbit \$450K to other LEO	12 x 24 x 36 cm 12 x 12 x ~72 cm (ISS only)	*12 kg			Mediain		0	accommodations are operational
12U		no chrg to ISS orbit \$1950K to other LEO	23 x 24 x 36 cm 12 x 24 x ~72 cm (ISS only)	*24 kg		multiple for others	Medium	Venture Class	Y	No LSP certification; accommodation not operational
	*At the cost of flexibility in manifesting/integration, violation of these mass limits may be									

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allowed. Contact the LSP POC listed below.

SmallSat or CubeSat Constellations (up to a total of 24U)

Surf Board		**four 3U dispensers/board **two 6U dispensers/board **two surf boards/launch	~30 kg/board	multiple	Low	Falcon 9	G	LV is LSP Certified; 1st flight of accommodation is pending
Aft Bulkhead Carrier	\$3.75M	**51x51x ~87 cm smallsat or eight 3U or four 6U cubesat dispensers; one ABC/launch	80 kg	multiple	Medium	Atlas V	G	LV is LSP Certified; accommodation is operational
C-Adapter Platform		**23 x 31 x 33 cm smallsat	45 kg	multiple	Low	Atlas V / DeltaIV	G	LV is LSP Certified; accommodation is not operational

** see provider websites for updated interface

details

ESPA Class Secondaries on IMAP mission

ESPA Grande		no charge/port	***	***	***	High	Falcon 9/Atlas V	G	LV is LSP Certified; ESPA Grande is operational
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*** see NASA's Mission Specific Evolved Expendable Launch Vehicle Secondary Payload Adapter (ESPA) System Interface Specifications (SIS) For Heliophysics Missions of Opportunity in the Program Library.

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VCLS Class	VCLS Class	\$10M	1.1m dia (smaller dia above	0-150 kg	500km SS to 45 deg	Medium	Rocket Lab's Electron	Y	Achieved 1st launch; No LSP Certification; For high risk-tolerant payload
		\$15M	0.6m height)	0-300 kg	500 km SS		Virgin Orbit's Launcher One	R	Awaiting 1st launch; No LSP Certification; For high risk-tolerant payload

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