

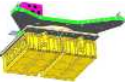
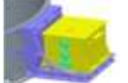
Charge to PI-Managed Mission Cost	Volume (interface)	Payload Max Launch Mass	Orbits	Availability of Opportunities (H/M/L)	Launch Vehicles	LV Risk	Comments
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Cubesats

1U		no charge	10x10x11.35 cm	**1.33 kg	400km @ 51.6deg circ for ISS deploy multiple for others	High	ISS (Dragon/Cygnus)	G	Certified; For low risk-tolerant payload 1st launches 2017/2018
3U		no charge	12 x 12 x 36 cm	**5 kg		Med	Atlas V / Falcon 9	G	
6U		no charge	12 x 24 x 36 cm	**12 kg		Med	Venture Class	R	

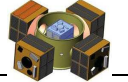
**At the cost of flexibility in manifesting/integration, violation of these mass limits may be allowed. Contact the LSP POC listed below.

Small Sat / Cubesat Constellations

Surf Board		\$3.0M	*two 3U dispensers *two 6U dispensers	50 kg	multiple	Low	Falcon 9	G	Certified; For low risk-tolerant payload
Aft Bulkhead Carrier		\$3.0M	*51x51x ~87 cm smallsat or cubesat dispensers	80 kg	multiple	Low	Atlas V	G	Certified; For low risk-tolerant payload (future "CubeSat Express" design may hold up to 200lb of CubeSats - currently at PDR level)
C-Adapter Platform		\$3.0M	*23 x 31 x 33 cm smallsat	45 kg	multiple	Low	Atlas V / DeltaIV	G	Certified; For low risk-tolerant payload

* see provider websites for updated interface details

ESPA Class Secondaries

ESPA/ SHERPA		\$10M	*61 x 71 x 97 cm (38cm clampband or sep system)	*six ports 180 kg each	multiple	Medium	Falcon/Atlas	G	Certified; For low risk-tolerant payload
ESPA Grande		\$10M	*81 x 106 x 97cm (61cm clampband or sep system)	*four or five ports (300 kg each)					

* see provider websites for updated interface details

Primaries

VCLS Class		\$15M	1.1m dia (smaller dia above 0.6m height)	150 kg	RL: 500km SS to 45 deg FF: 425km LEO 33-98 deg VG: 500km SS	Medium	RocketLab Electron Firefly Alpha Virgin Galactic	R	Awaiting 1st launch; No LSP Certification planned; For high risk-tolerant payload
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