

	Quantity	Mass					
	(#)	Component Mass (g)	Total w/o Contingency (g)	Contingency	Total w/ Contingency	Alloted Mass	% of Alloted Subsystem Mass
Systems						130	0%
JPL FPGA			89		100	120	83%
Payload			17	5%	18	100	18%
Camera Payload	1	8	8	5%	8		8%
Camera Mount	1	9	9	5%	9		9%
ADCS			14.8	5%	16	20	78%
Magnet	1	9	9	5%	9		47%
Hysteresis Material	2	1	2	5%	2		11%
Magnet Holders	2	1.9	3.8	5%	4		20%
EPS			526.7	6%	557	380	147%
2-cell Battery Pack	1	125.3	125.3	5%	132		35%
Battery Case	1	33.2	33.2	5%	35		9%
Solar Cells	12	3.6	43.2	5%	45		12%
Solar Panel Boards	6	32.7	196.2	5%	206		54%
Power Distribution Board	1	98.8	98.8	5%	104		27%
Wiring and Harnesses	1	30	30	10%	33		9%
C&DH			60.6	5%	64	140	45%
C&DH Board	1	52.7	52.7	5%	55		40%
STAMP processor	1	7.9	7.9	5%	8		6%
Comms			144	5%	151	150	101%
Antennas	2	3.2	6.4	5%	7		4%
Coax and adapters	2	13.9	27.8	5%	29		19%
Mount	2	2.9	5.8	5%	6		4%
Lithium radios	2	52	104	5%	109		73%
Structures			236	5%	247	260	95%
Side Panels	3	17.8	53.4	5%	56		22%
Camera Panel	1	17.6	17.6	5%	18		7%
End Panels	2	21.9	43.8	5%	46		18%
Rails	4	18.1	72.4	5%	76		29%
Deployment Switch	2	5	10	5%	11		4%
Board Mounts	3	6	18	5%	19		7%
Fasteners	68	0.3	20.4	5%	21		8%
M-Cubed Total			1087.7	5%	1,153	1,300	89%