

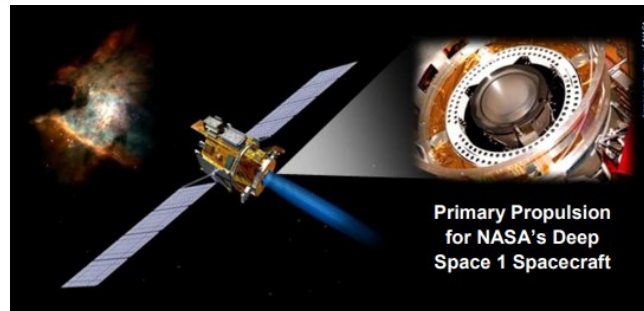
30 cm XENON ION Propulsion System (XIPS)



30cm XIPS® Thruster



XIPS® Power Processing



KEY FEATURES




- Over 40 years in development by Stellant and NASA
- Technology validated in deep space environment
- 16,000 hours of flawless operation over 3 years in space on NASA Deep Space 1
- > 30,000 hours of operation in life test
- Provides high performance over large throttling range:
 - 0.5 kW to 2.3 kW
- Stellant actively supporting NASA's next generation electric propulsion programs (NEXT, NEXIS)

Thruster Performance Estimates	30 cm				
Parameter	Sample Input Power Levels				
Total Input Power (W)	2.31 kW	2.06 kW	1.48 kW	1 kW	0.49 kW
Max Xenon Mass Flow	2.86 mg/s	2.65 mg/s	1.86 mg/s	1.51 mg/s	1.02 mg/s
Thrust	92 mN	83 mN	58 mN	40 mN	19 mN
Specific Impulse	3280 secs	3190 secs	3180 secs	2700 secs	1950 secs
Mass Utilization Efficiency (%)	78%	78%	77%	73%	64%
Input Bus Voltage	80 V - 160 V				
PPU Efficiency	92%				
PPU Mass	33 lbs				
Thruster Mass	18 lbs				

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