

Northrop Grumman
Space Systems

Northrop Grumman Space Systems

United States · founded 1939 ·
northropgrumman.com/space

10

PRODUCTS

7

WITH DATASHEETS

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as of 20 August 2026



Northrop Grumman Space Systems

Northrop Grumman Space Systems is the space division of Northrop Grumman Corporation, one of America's largest defense and aerospace companies. The division encompasses launch vehicles, satellite manufacturing, space systems, and space logistics capabilities developed through Northrop's acquisition of Orbital ATK in 2018. Northrop Grumman manufactures the Antares rocket (for NASA Commercial Resupply Services with the Cygnus spacecraft) and the Pegasus XL air-launched orbital rocket. The company developed the OmegA rocket (cancelled in 2020 after SpaceX won the National Security Space Launch contract) and is now partnering with Firefly Aerospace on a next-generation medium-lift vehicle. The Cygnus spacecraft provides pressurized cargo delivery to the ISS and has completed over 20 successful resupply missions. Northrop Grumman also manufactures the James Webb Space Telescope sunshield, AEHF military communications satellites, the GeoStar communications satellite bus, and advanced payloads for NRO and other classified programs. Northrop Grumman Space is also developing Mission Extension Vehicles (MEVs) — spacecraft that dock with GEO satellites to extend their operational life, representing a growing space logistics market. The MEV-1 and MEV-2 have successfully docked with and extended the lives of aging Intelsat satellites.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

Product catalogue



NORTHROP GRUMMAN SPACE SYSTEMS

Antares 330

Antares 330 is Northrop Grumman's next-generation, two-stage expendable rocket designed to launch Cygnus cargo spacecraft to the ISS, replacing the retired Antares 230+ with a new

Stages	Two-stage: liquid-fueled first stage + solid-fueled second stage
First stage engines	7x Firefly Aerospace Miranda engines (RP-1/LOX)
First stage thrust	~7,200 kN combined
Second stage	Castor 30XL solid rocket motor
Diameter	3.9 m (payload fairing / core)
Payload to LEO/ISS transfer orbit	Up to 10,500 kg
Payload fairing	3.9 m diameter, removable 'pop-top' nose cone for late cargo loading

price on request



NORTHROP GRUMMAN SPACE SYSTEMS

AstroMesh Unfurlable Mesh Antenna Reflector

Large-aperture deployable mesh reflector antenna, scalable from 3 to 22 meters, with over 150 years of collective on-orbit success across UHF-to-Ka-band missions.

Aperture Range	3 to 22 meters
Frequency Coverage	UHF through beyond Ka-band (V-Band)
AM-1 Class	Scalable 6-22 meters, extensive flight heritage
AM-2 Class	Optimized 18+ meters, 40% reduced stowed height vs AM-1
AM-Lite Class	Optimized 3-8 meters, 50% mass reduction vs AM-1
AM-Lite Efficiency	55% at 31 GHz / 45% at 50 GHz (5.2 m reflector)
Flight Heritage	>150 years collective on-orbit success, 11+ successful deployments

price on request

[datasheet](#)



CASPR 20 Flight Hardware

NORTHROP GRUMMAN SPACE SYSTEMS

Common Space Vehicle Mechanisms

Northrop Grumman's Common Space Vehicle Mechanisms are modular actuators designed for stowing and articulating spacecraft payloads and solar arrays, with a focus on long-life, low

Flight Heritage	40+ years, 100% mission success, over 50 missions
Deployment Actuators TRL	9
Solar Array Drive Assembly TRL	9
Modular Slip ring configurations	20 or 30 ring modules
Modular Slip ring maximum modules	Up to four modules
Modular Slip ring maximum circuits	120 circuits

flight proven • TRL 9 price on request

[datasheet](#)



NORTHROP GRUMMAN SPACE SYSTEMS

Cryocoolers

Northrop Grumman's pulse tube cryocoolers provide high reliability for critical space missions, operating without moving parts for extended lifespans.

On-orbit operation	More than 300 combined years
Operating mechanism	Without moving parts
Applications	Missile defense, climate science, astronomy, weather tracking and prediction
Scalability	Scalable for large-scale and robust spacecraft, and for smaller, more proliferated spacecr
Flight Heritage	NASA's James Webb Space Telescope

price on request

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NORTHROP GRUMMAN SPACE SYSTEMS

ESPASat

The ESPASat platform is a modular and cost-effective spacecraft bus that utilizes a customized EELV Secondary Payload Adapter (ESPA) ring to host technology development and operat

ESPASat-D Dry Mass	430-470 kg
ESPASat-D Dimensions	157.5 cm dia x 61 cm ht
ESPASat-D Delta-V	400-800 m/sec
ESPASat-D Payload Mass	>1,920 kg
ESPASat-HP Dry Mass	<900 kg
ESPASat-HP Fuel Capacity	558 kg
ESPASat-HP Mission Duration	5-7 years

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NORTHROP GRUMMAN SPACE SYSTEMS

LN-200S Inertial Measurement Unit

Fiber-optic inertial measurement unit for space applications with flight heritage on Mars rovers and deep-space probes.

Gyro Bias Repeatability	1°/hr, 1σ
Angle Random Walk	<0.07°/√hr
Accelerometer Bias Repeatability	300 μg, 1σ
Dynamic Range (max)	1,000°/sec
Power	12 W nominal, regulated ±5 Vdc and ±15 Vdc
Dimensions	3.5 in. diameter x 3.35 in. height (8.89 x 8.51 cm)
Weight	1.65 lb (748 g)

price on request

[datasheet](#)



NORTHROP GRUMMAN SPACE SYSTEMS

PMD Tanks (Propellant Management Device Tanks)

A family of qualified/flight-proven propellant management device (PMD) tanks from Northrop Grumman, used to store and deliver fuel or oxidizer to spacecraft propulsion systems in m

80213-1	Total Volume: 1,232 in ³ / 20.2 l; Diameter: 13.33 in ID (339 mm ID); Weight: 4.00 lbm (1.8
80277-1	Total Volume: 18,450 in ³ / 302.5 l; Diameter: 32.84 in ID (834 mm ID); Weight: 32.60 lbm (
80296-1	Total Volume: 3,575 in ³ / 58.6 l; Diameter: 19.03 in ID (483 mm ID); Weight: 8.00 lbm (3.6
80301-1	Total Volume: 20,900 in ³ / 342.6 l; Diameter: 34.25 in ID (870 mm ID); Weight: 34.00 lbm (
80304-1	Total Volume: 3,575 in ³ / 58.6 l; Diameter: 19.03 in ID (483 mm ID); Weight: 7.75 lbm (3.5
80309-1	Total Volume: 9,210 in ³ / 151 l; Diameter: 22.14 in ID x 32 Long (562 mm ID x 813 mm long)
80310-5	Total Volume: 13,743 in ³ / 225.3 l; Diameter: 23 in ID x 40 Long (584 mm ID x 1016 mm long)

price on request



NORTHROP GRUMMAN SPACE SYSTEMS

Pressurant Tanks (Titanium and COPV)

Monolithic titanium and composite overwrapped pressure vessel (COPV) tanks for high-pressure Xenon, Nitrogen, and Helium spacecraft pressurant storage.

Construction Options	Monolithic titanium; Composite Overwrapped Pressure Vessel (COPV)
Qualified Gases	Xenon, Nitrogen, Helium

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NORTHROP GRUMMAN SPACE SYSTEMS
Propulsion Products and Services

Northrop Grumman offers a comprehensive range of propulsion products and services, including flight-proven systems, bipropellant and monopropellant thrusters, and gel propulsion sy

MRE-0.1 Thrust	0.4 N @ 350 psia; Isp 216 sec; 0.5 kg; 180x38 mm
MRE-1.0 Thrust	4.4 N; Isp 220 sec; 0.5 kg; 190x38 mm
MRE-4.0 Thrust	18 N @ 600 psia; Isp 217 sec; 0.5 kg; 61x206 mm
MRE-5.0 Thrust	22 N @ 400 psia; Isp 232 sec; 0.8 kg; 250x38 mm
MRE-15 Thrust	86 N @ 400 psia; Isp 228 sec; 1.1 kg; 119x318 mm
Propellant	Hydrazine
MRE-0.1 Demonstrated Life	34 kg throughput / 117,000 cycles

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NORTHROP GRUMMAN SPACE SYSTEMS
Propulsion Tanks

Northrop Grumman offers a range of propulsion and pressurant tanks, including pressure management (PMD) tanks, diaphragm tanks, and motor cases, with six decades of on-orbit herita

Tanks Flown	7,000+
On-orbit Failures	0
Operational Heritage	60+ years
Product Family Includes	PMD tanks, diaphragm tanks, pressurant tanks, motor cases

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Contact Northrop Grumman Space Systems

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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