Northrop Grumman’s L-1011 carrier aircraft is a proven air launch platform modified to carry the Pegasus air-launched space booster, the X-34 Reusable Launch Vehicle Technology Demonstrator, and able to carry complex and variable payloads. Northrop Grumman’s L-1011 is a flexible, mobile platform that can be deployed worldwide. The L-1011 Engineering Team and Designated Engineering Representatives (DERS) are experienced in the analysis and completion of modifications with regard to flight test and airborne research projects.

System Features
Capable of carrying external payloads up to 52,000 lb. (23,000 kg) to an altitude of at least 42,000 ft (12,800 m) at an airspeed of at least Mach 0.82
Flight proven release mechanism for airdrop of experimental vehicles or dropable stores
Hook system is capable of attaching to an external adapter for airborne test equipment deleting the need for multiple external hard points to attach several sensors or experimental equipment
Large open cabin upper deck for flight test equipment and in flight research team
Fully equipped as an airborne test platform providing power, data, video monitoring and payload environmental conditioning
Certified for extended over water operations and Reduced Vertical Separation Minimums (RVSM), and flights into European airspace

Facts At A Glance
Large Cabin for Flight Test Equipment
Real-time Video Monitoring of External Payloads
Aircraft Generated Electrical Power
- 60 Hz and 400 Hz AC, 28 VDC, UPS Backup
Nitrogen Purge for Temperature and Moisture Control
Launch Panel Operator Station to Control Payload or for Airborne Test Monitoring
Regulated and Filtered Payload Air Conditioning
HF, VHF, UHF and SatCom Air to Ground Voice Communications, Aircraft GPS to Payload Link
**Performance**

Mission Endurance: 10.5 hrs  
Ferry Range: 4,500 NM  
Maximum Altitude: 43,000 ft  
Maximum Speed: 0.86 Mach

**Specifications**

Payload External Envelope: 57 ft (L) x 5 ft (W) x 5 ft (H)  
17.37 m (L) x 1.52 m (W) x 1.52 m (H)

Payload Maximum Weight: 52,000 lb.  
23,580 kg

Cabin Average Speech Interference Level (SIL): 62 dB
Cabin Overall Sound Pressure Level (OASPL): 60 dB
Cabin Floor Width: 18.3 ft  
Cabin Ceiling Height: 7.9 ft  
Cabin Floor Space: 2,452 ft²

**More Information**

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Onboard video camera system to monitor external payload.