

REDUNDANT INERTIAL FLIGHT CONTROL ASSEMBLY

PRIMARY GUIDANCE FOR LAUNCH VEHICLES



COST EFFECTIVE SOLUTIONS FOR FAULT TOLERANT LAUNCH VEHICLE GUIDANCE AND CONTROL

L-3 Space & Navigation (L-3 S&N) is a leading supplier of inertial instruments to the commercial, military and scientific communities. L-3 S&N has been providing the United Launch Alliance (ULA) Delta program with our Redundant Inertial Flight Control Assembly (RIFCA) product since 1994 and RIFCA is expected to fly on all future Delta II and Delta IV launches.

RIFCA is a critical component in the Delta launch process, guiding the rocket into proper space orbit, with missions lasting up to seven hours and has routinely achieved a guidance accuracy of 6 to 30 times better than mission requirements.

L-3 S&N's RIFCA is a triple-redundant guidance package that, in the course of 100 consecutive launches, has never triggered a single redundancy back up during normal flight operations.



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FEATURES, CAPABILITIES & TECHNICAL DATA

PROVEN QUALIFIED DESIGN WITH DEMONSTRATED PERFORMANCE OVER 97 LAUNCHES

- Triple Redundancy ensures no single point of failure
- Failure Free Flight Performance
- Orbital Insertion Accuracy 6 to 30 times better than Mission Requirements
- Superior Reliability lowers space launch cost and increases launch success

• PERFORMANCE

- Reliability (Ps) 0.99999
- Random Walk 0.007 deg/rt-hr
- Gyro Bias 0.08 deg/hr
- Alignment ± 0.5 deg
- Angular Rate ± 30 deg/s
- Linear Acceleration ± 15 Gs
- Scale Factor ± 25 ppm

• POWER

75 Watts

• WEIGHT

33 kg

• SIZE

43.2cm x 35.5cm x 24.2cm

• ARCHITECTURE

- Triple Modular Redundant (TMR)
- Fail-Operate/Fail-Safe design
- MIL-STD-1553B interface



FOR MORE INFORMATION PLEASE CONTACT:

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L-3. Leading. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems. The company reported 2007 sales of \$14 billion.