

## **Trident Systems Merits in Space**



Electron launches DARPA R3D2 mission

Competition Sensitive Information / Trident Pacific Proprietary

DARPA's Radio Frequency Risk Reduction Deployment Demonstration (R3D2) is set for launch in late February to space-qualify a new type of membrane reflectarray antenna. The antenna, made of a tissue-thin Kapton membrane, packs tightly for stowage during launch and then will deploy to its full size of 2.25 meters in diameter once it reaches low Earth orbit.

The launch will take place on a Rocket Lab USA Electron rocket from the company's launch complex on the Mahia Peninsula of New Zealand. Northrop Grumman is the prime contractor and integrated the 150 kg satellite; MMA Design designed and built the antenna. Trident Systems designed and built R3D2's software-defined radio, while Blue Canyon Technologies provided the spacecraft bus.

https://www.space.com/darpa-experimental-r3d2-satellite-construction.html