

New Tactical ISR Satellites Provide Global, Persistent Support For Warfighters

Units operating in denied areas employ survivable ISR to shorten the sensor-to-shooter timeline



LITTLETON, Colo., Apr. 13, 2021 – Lockheed Martin (NYSE: LMT) is addressing the accelerating demand for space-enabled warfighting capabilities with a new line of rapid, integrated and affordable tactical Intelligence, Surveillance and Reconnaissance (ISR) satellites. These satellites, based on Lockheed Martin's [LM 400 mid-size bus](#), enable tactical warfighters to track

moving targets at long ranges and operate in contested and denied environments -- on compressed timelines at the scale of battle.

“ Our LM 400 is a highly adaptable, mid-sized satellite and yet can be produced at scale in a rapid and cost-effective manner - Rick Ambrose, executive vice president, Lockheed Martin Space ”

Based on flight-proven and mature components, an open architecture, and a highly produceable design, the affordable LM 400 satellite bus forms the backbone of this needed capability across a variety of emerging mission areas. These satellites fully integrate space ISR with the warfighting platforms and weapons of other domains to shorten the find-fix-finish kill chain.

The LM 400-based tactical ISR satellites offer the following benefits:

- **Interoperable:** By following open standards like [Open Mission System \(OMS\)](#) and [Universal Command and Control Interface \(UCI\)](#), these tactical ISR satellites readily connect with other warfighting platforms and battle management systems from all services.
- **Adaptable:** The software-defined satellite capabilities of Lockheed Martin's [SmartSat™](#) platform offer the ability to responsively develop and deploy new mission capabilities on orbit ahead of the pace of evolving threats.
- **Powerful:** The high-powered LM 400 can also support payloads up to 14 kilowatts and up to 3,300 pounds (1,500 kilograms) of mass, enabling extended operation of a wide-range of sensor technologies.
- **Autonomous, Survivable, Combat-Ready:** Powered by on-board processing and resilient connectivity, this tactical ISR satellite line enables in-theater, low-latency sensor tasking, on-orbit processing of mission data, protected communications and direct downlink of situational awareness and targeting information, increasingly essential to shortening the sensor-to-shooter timeline against fleeting targets.

Digital engineering and manufacturing are accelerating our ability to deploy robust, future-focused constellations that feature leading-edge technology for our customers' missions,” said Rick Ambrose, executive vice president of Lockheed Martin Space. “Our LM 400 is a highly adaptable, mid-sized satellite and yet can be produced at scale in a rapid and cost-effective manner.”

For persistent ISR capabilities, “at scale” means larger constellations and rapid satellite production and deployment. Lockheed Martin's new high-capacity [Gateway Center](#) satellite manufacturing facility supports accelerated space vehicle production, assembly and testing in a single, flexibly configured space, accommodating multiple security classification levels.

The LM 400-based tactical ISR satellites will play a key role in [Joint All-Domain Command and Control \(JADC2\)](#) by allowing tactical warfighters to better employ space-based capabilities. Lockheed Martin is also developing and building 10 space vehicles based on [Tyvak's Mavericks](#) bus over the next two years for the [Space Development Agency's \(SDA\) Transport Layer Tranche 0](#), cited as the backbone of JADC2, enabling even more connectivity between ISR and warfighters.

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