

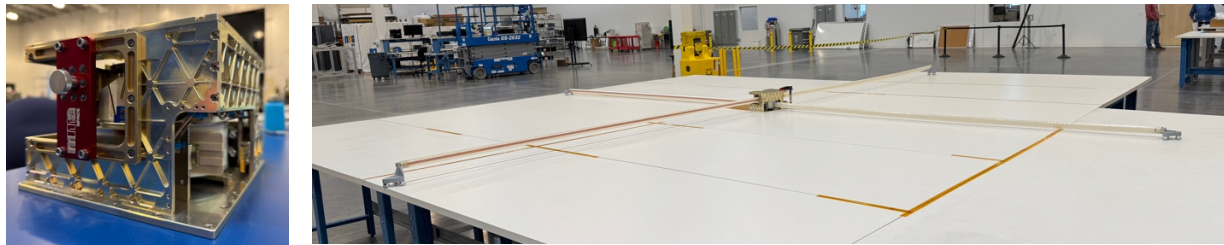
PRESS RELEASE

FOR IMMEDIATE RELEASE

MMA Space Delivers Crossed Dipole Deployable Antenna and Largest CubeSat Solar Array Ever for DoD Mission

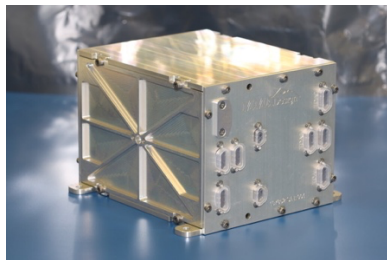
BROOMFIELD, Colo., August 12, 2025 - MMA Space has developed, manufactured and delivered to our customer a UHF/VLF crossed Dipole antenna in combination with a high-power solar array wing in support of a 24U DoD CubeSat program.

The antenna stows in a 2U x 2U form factor and deploys two orthogonal dipoles to 5-meter lengths (tip-to-tip).



Crossed Dipole Antenna shown stowed (left) and deployed (right).

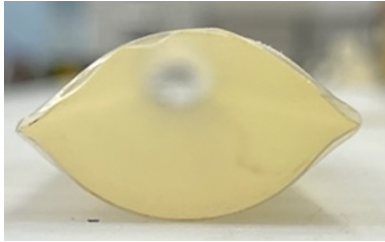
The deployment of both dipoles is driven by a single motor-driven gear train and MMA's radiation tolerant Deployment Control Unit (DCU) electronics. Ground testing has demonstrated outstanding electrical performance of the antenna conductive elements.



MMA's flight qualified Deployment Control Unit (DCU).

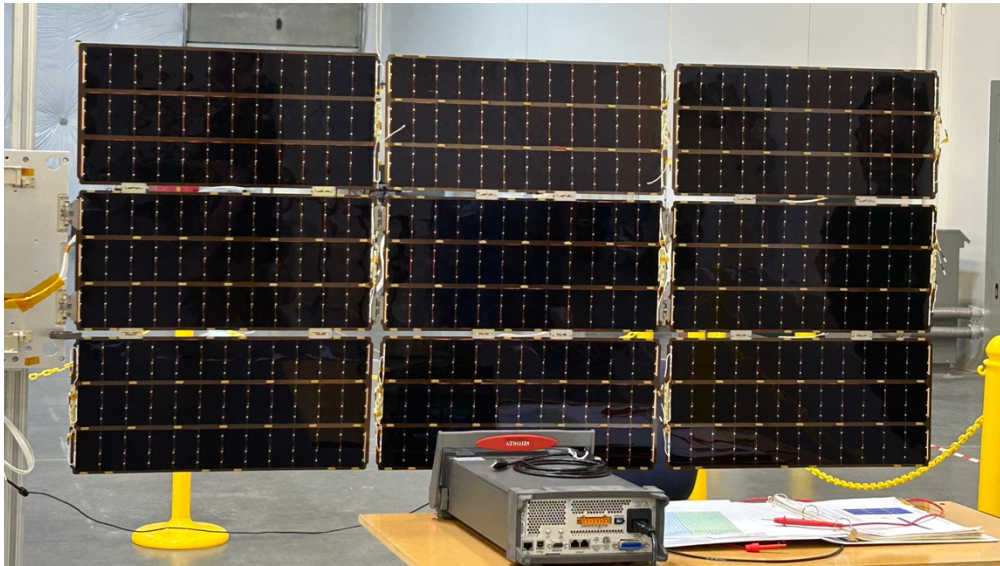
This DoD program marks the 4th delivery of our new DCU, including two such controllers on separate boom architectures for the MagQuest Challenge, as well as for the Large Antenna Membrane Boom Deployment Assembly (LAMBDA) program completed in November 2024 for NASA Goddard Spaceflight Center. Our DCU heritage also includes the CalTech power beaming demonstration Deployable on-Orbit ultraLight Composite Experiment (DOLCE).

The crossed dipole antenna leverages MMA's patented SHEAthed Rollable Lip Shaped (SHEARLIPS) composite boom technology. MMA booms offer exceptional bending stiffness, torsional stiffness and structural stability, all critical features for this RF application.



Cross-section of a SHEARLIPS composite tape boom.

The solar array delivers 330W from a single deployed wing. A novel, controlled deployment sequence is used to achieve the 9-panel active surface, maximizing power output over a single wing. 330W is roughly 50% more power than MMA's heritage high-power CubeSat array for 2-wing systems. This is, to our knowledge, the largest deployable solar array of its kind ever to fly on a CubeSat.



330W Solar Array wing shown fully deployed during testing at MMA facility.

"It's part of our mission at MMA to support our country's defense systems, and it's really exciting when we can do that by leveraging our heritage in both high-power solar arrays and RF antenna systems" says Mitch Wiens, president + CEO of MMA Space. "Enabling big power and big apertures in a small satellite is really the sweet spot for our team's expertise."



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MMA has designed and delivered solar arrays for a wide variety of mission environments including VLEO, LEO, CisLunar and GEO orbits as well as the interplanetary arrays flown on NASA's MarCO twin Cubesats and Lunar surface arrays for rovers and other exploration.

ABOUT MMA:

MMA Space enables your mission to achieve maximum performance through agile and innovative solutions and products leveraging state-of-the-art deployable system technologies and flight-proven expertise.

Founded in 2007, we are at the intersection of Space + Tech. We are an entrepreneurial small business that is both well established and inherently innovative. Privately owned, we are beholden only to our customers and ourselves. Our culture is creative, agile and responsive. Our technologies are both proven and constantly improving.

With a multitude of antennas, deorbits, deployable structures, and solar arrays on orbit and a 100% deployment success rate, our customers – From DARPA to start-ups – rely on us for custom, quality, high-performance, innovative solutions designed, built and delivered at the speed of relevance.

Learn more at www.mma.space

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