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Absolute EMS Expands Support for LEO, MEO, and GEO Satellite Programs

SANTA CLARA, CA — May 2026 — Absolute EMS, Inc., a Silicon Valley–based provider of high-technology electronics manufacturing services, continues to grow its presence in the satellite sector, supporting programs across low Earth orbit (LEO), medium Earth orbit (MEO), and geostationary orbit (GEO) with advanced PCBA manufacturing, test, and sub-assembly capabilities.



As satellite designs evolve, so do the manufacturing demands behind them. LEO systems must withstand frequent thermal cycling and exposure to atomic oxygen, while MEO and GEO platforms are expected to operate for years—often decades—without the possibility of service. Across all orbits, the expectation is the same: consistent quality and long-term reliability under harsh conditions.

Absolute EMS has aligned its processes to meet those expectations. The company has developed an intensified touchless manufacturing approach designed to reduce handling-related variability and maintain tighter process control throughout production. Combined with high quality standards, full traceability, and a workforce certified to IPC J-STD-001 Class 3—

including Space Addendum requirements—this approach helps ensure assemblies are built to perform in environments where failure isn't an option.

Another ongoing challenge in satellite design is weight. Reducing mass directly impacts launch cost and system efficiency, and it requires precision at the component level. Absolute EMS supports this need with experience in assembling ultra-miniature components, including 008004 imperial package sizes, enabling customers to push designs further without compromising build quality.

With a background supporting high-reliability industries such as medical, military, and industrial electronics, Absolute EMS brings a practical understanding of controlled manufacturing environments and strict documentation requirements. That experience continues to translate naturally into the satellite sector, where traceability, repeatability, and process discipline are critical.

“Our customers are building systems that need to perform in very different environments depending on orbit, but the expectations around quality and reliability don't change,” said Doug Dow, COO at Absolute EMS. “Our focus is on building processes that support that consistency, regardless of the application.”

As demand for satellite technology continues to grow, Absolute EMS is positioned to support a range of programs from emerging LEO constellations to long-life GEO platforms while maintaining a steady focus on quality, precision, and manufacturability.

For more information about Absolute EMS and its electronics manufacturing services, visit www.absolute-ems.com.

About Absolute EMS

Absolute EMS, located in the heart of Silicon Valley, offers 6-time award-winning manufacturing services in a state-of-the-art, high-technology EMS facility. The company won Global Technology Awards in 2020, 2021 and 2024 for its manufacturing services and was awarded 'Most Improved Smart Factory' by the Global Technology Awards in 2021. Founded in 1996, Absolute EMS originally serviced the medical industry, thus their focus on controlled electronics manufacturing that is scalable and repeatable. The Absolute EMS focused verticals are Medical, Military, Industrial, Networking, Aerospace, high performance computing, AI and Engineering. Learn more by visiting <http://www.absolute-ems.com>.