

NOISE: 26.1
ELEV: 0.75

Reliability isn't an option – it's a requirement.



dB Control delivers.

SCALE: 1KM/PXL
50KM



TWT Amplifiers – High-power, helix and coupled-cavity TWTAs cover the 1 to 96 GHz frequency range and are available with continuous wave or pulsed power. Built to withstand harsh environmental conditions, they are suitable for shipboard, ground mobile and unpressurized airborne environments.

Microwave Power Modules – High-efficiency, conduction-cooled MPMs provide extremely dense packaging across the 2 to 46 GHz frequency band. They meet stringent SWaP requirements and are based on a modular design for easy customization. dB Control's MPMs are available with continuous wave or pulsed power.

Power Supplies – Tightly packaged high- and low-voltage power supplies are used in airborne, shipboard and ground-based applications. Fully qualified for mission-critical military operations, these power supplies are suitable for very low phase noise and spurious radar transmitters, SAR, multimode radars, data links and more.

FLOs – Frequency Locked Oscillators cover frequencies ranging from 2 to 36 GHz. They are capable of changing frequencies in the order of hundreds of nanoseconds and offer various modulations, such as AM, FM and PM.

IFMUs – Instantaneous Frequency Measurement units measure both frequency and power level. They can also detect pulse on pulse signals. The **DIFMU** is a dual-channel IFMU.

DCUs – Digital Control Units are capable of controlling a single FLO and other RF equipment. They can be controlled and set up via a network port or preprogrammed with a removable SCD card.

ACUs – Antenna Control Units can play prerecorded antenna patterns and compensate for platform movements. For example, they can compensate for tilt and roll when mounted on an aircraft.

IDCUs – Integrated DCUs combine the control and interface power of a DCU with the RF capabilities of a FLO and the capabilities of an ACU for a complete integrated system controller in a single unit.

Custom RF Sources & Receivers – RF units of different generations may have compatibility issues. dB Control analyzes these situations and builds translation units that allow older systems to communicate and interact with newer ones.



Military & Commercial Markets

dB Control's products are used for a wide variety of applications—including radar (multimode, pulse Doppler and SAR), electronic countermeasures (ECM), electronic warfare (EW) threat simulation, airborne data links, high data-rate digital communications, test and measurement (RFI and EMC), commercial X-ray, antenna pattern and radar cross-section measurement.





Custom-Built Products

All products can be quickly and easily configured to meet custom specifications and platform requirements for ground-based, shipboard and high-altitude military manned and unmanned aircraft. By using a modular construction based on mature technologies and proven designs—and by working with standard modules and manufacturing processes—we produce products that cost less, are easy to maintain, and are available in production quantities.

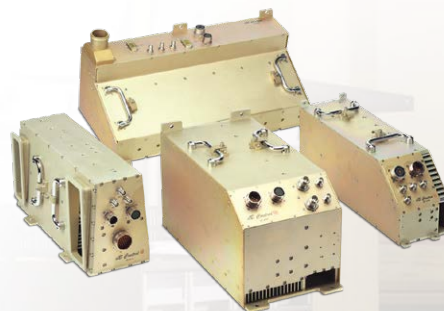
High-Voltage Specialists

Many dB Control products contain tightly packaged high-voltage circuitry. Critical to the success of these designs is the encapsulation process, which has been perfected in our advanced encapsulation laboratory. All encapsulated modules are manufactured in house. Assembly of these tightly packaged products is performed by experienced specialists trained in the safe assembly of products containing high-voltage circuitry. Our excellent reputation for encapsulation and high-voltage winding, and our ability to assemble high-voltage circuitry, is known throughout the industry.



Specialized Contract Manufacturing

For companies looking to outsource, dB Control offers specialized contract manufacturing services for high-voltage transformers, power supplies, and high-voltage assemblies. Full vacuum encapsulation, pressure cure, and conformal coating laboratory services are available, as is transformer winding and testing.



Reliability by Design®



About dB Control

Established in 1990, dB Control supplies mission-critical (often sole-source) products worldwide to military organizations, major defense contractors and commercial manufacturers. The company designs and manufactures reliable high-power TWT Amplifiers (TWTAs), microwave power modules (MPMs), transmitters and high-voltage power supplies (HVPS) for radar, electronic countermeasures (ECM) and communication applications on airborne, maritime and ground-based military platforms. After acquiring TTT-Cubed in 2019, dB Control now offers custom Instantaneous Frequency Measurement Units (IFMs), Frequency Locked Oscillators (FLOs), Digital Control Units (DCUs), Antenna Control Units (ACUs) and Integrated DCUs.



dB Control's modern 40,000-square-foot facilities in Silicon Valley are fully equipped for specialized contract manufacturing, transformer winding and testing, full vacuum encapsulation, pressure cure, conformal coating, environmental testing and repair depot services. dB Control is a subsidiary of the Electronic Technologies Group of HEICO Corp., a publicly-traded aerospace and electronics company.

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