

High Power Microwave Systems

Aethercomm designs and manufactures high power microwave systems for military, government and commercial customers. Systems include receivers, transmitters, power conditioning circuitry, microprocessor interface modules and other microwave, digital or analog circuitry as needed. The systems listed on this page are custom in nature. We provide complete system- and subsystem-level design; mechanical design and analysis; fabrication and assembly; and testing and characterization. Aethercomm designs these system solutions from 10 MHz to 40 GHz.

High power microwave system custom features include:

- externally combined, phase- and amplitude-matched RF high power modules
- 19" rack-mounted assemblies, aluminum plate mounting or other packaging as requested
- heat sinking via natural convection, forced-air or liquid cooling to maintain a high MTBF
- other high performance options upon request

If you do not see the product you need in the standard offerings listed below, please contact the factory with your specific requirements. Aethercomm will design and manufacture your custom system at production unit costs and on a competitive delivery schedule.

All data presented is at room temperature. Visit www.aethercomm.com for a complete list of datasheets.

X-Band Front End Assembly



- Operation from 9.0 GHz to 9.2 GHz min
- 200 watt transmit section
- Low noise receiver with high power limiter
- Microprocessor interface module
- Power interface module
- Multiple redundant subassemblies to ensure high MTBF
- X-band radar front end assembly

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- Operation from 16.0 GHz to 16.5 GHz min
- 50 - 100 watt transmit section
- Ku-band radar front end
- Low noise receiver
- High power limiter
- 120 VAC, 60 Hz, single phase operation