

MISSION-CRITICAL ANTENNA & RF DESIGNS

RF INTEGRATION

Ready to deploy and tailored for precision, our innovative antenna solutions adapt to meet your project's demands.

RAPID PROTOTYPES

With three in-house testing chambers, we fine-tune every detail and deliver market-ready products - without the wait.

MANUFACTURING

Our custom manufactured antennas perform better than off-the-shelf options - at a significantly lower cost.

OUR SERVICES

ANTENNA DESIGN • RF ANTENNA OPTIMIZATION • PROTOTYPING
ANTENNA TESTING • CONSULTING • PRODUCTION MANUFACTURING

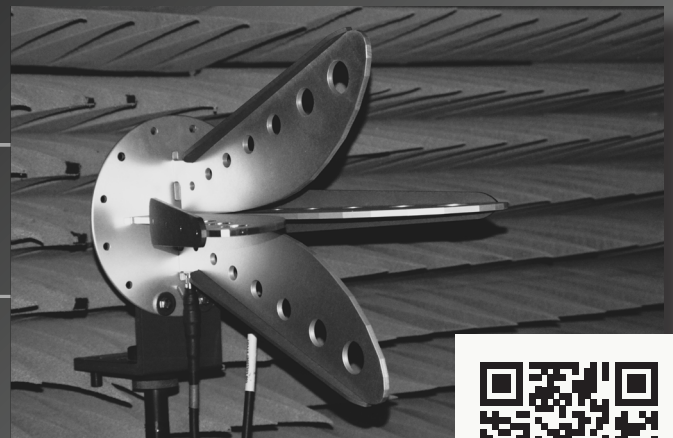
Field Theory is a veteran-owned engineering firm specializing in the design and manufacturing of antennas and RF solutions. We pave the way for product excellence by harnessing emerging technologies such as millimeter-wave and phased arrays. Our tailored designs meet or exceed essential requirements, and in-house testing ensures your intellectual property is kept secure. Dedicated engineers, specialized antenna and RF equipment, and onsite anechoic chambers enable us to minimize downtime and maximize efficiency.

LAB & TESTING FACILITIES

Our advanced RF lab and anechoic antenna chambers are for exclusive use by Field Theory clients. All testing is done in-house, keeping your IP secure.

Office features:

- Three onsite fully anechoic antenna chambers
- 2 meter and 5 meter chambers; ranges: 100MHz - 40GHz
- Pre-compliance EMC testing with radiated range of 30MHz - 26.5GHz
- Accurate range testing RSSI (Received Signal Strength Indicator) measurements across various environments
- OTA testing (TRP & TIS)
- Desense chamber to troubleshoot receiver/EMI noise issues and EMI/RF testing & troubleshooting
- Three EM simulation stations using CST Studio and XFDTD
- Rapid prototyping using 3D printers, LPKF high precision milling machine, and CNC machine





Celebrating 40+ Years of Executing Wireless Concepts

MARKETS SERVED

We specialize in providing innovative technology solutions across a wide range of markets:

- **Military**
- **Medical Devices**
- **IOT Devices/Cellular**
- Wearables/Implantables
- RFID/Wireless Charging
- Law Enforcement
- Telematics
- Robotics
- Sports & Gaming

THE FIELD THEORY DIFFERENCE

5 Meter Onsite Anechoic Chamber

Advanced Onsite RF Lab

500+ Wireless Projects Completed

40+ Years of Practical Experience

Cutting-edge Simulation Tools

Rapid Prototyping

CONNECTIVITY SOLUTIONS

Cellular (LTE, 4G, 5G)

GPS

Directive and Phased Array

RFID/NFC

ISM

mmWave

Bluetooth[®]

WLAN/WiFi/Zigbee

Z-wave

MIMO

Electronic Warfare

SAMPLE FIELD THEORY WORKS

Wearable Device with Centimeter Accuracy

EMP Hardening

Complex Ground Level Mesh Networks

Multiple Coexisting Dual-band Antennas

Anti-jamming Phased Array

2048 High-gain Phased Array

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