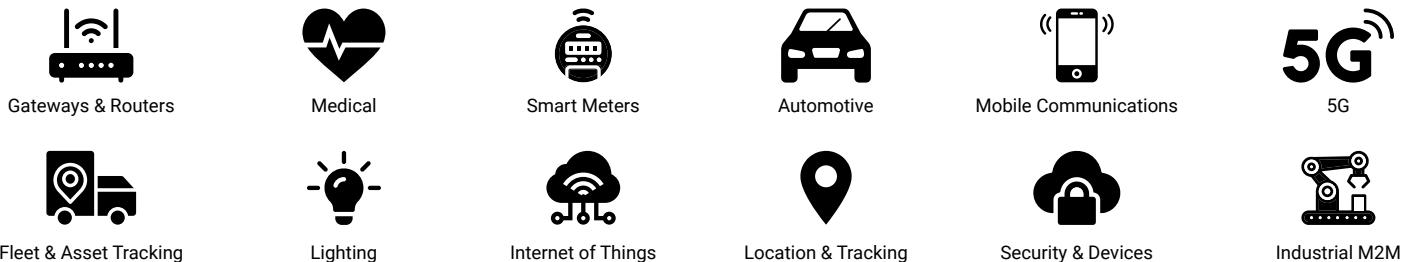


Antenna Solutions for Every Application



STANDARD ANTENNAS

- Internal on-board/off-board & external indoor/outdoor
- Application notes, DXF & simulation files
- Evaluation boards for faster testing
- Unique tuning optimization techniques

- On/off ground antennas
- AEC-Q200 automotive antenna versions
- Versatile antennas:
Same antenna / Different layouts / Multiple technologies

Cellular 5G/4G/LTE/LPWAN/ISM



GNSS & SatCom



BLE & Wi-Fi



UWB



ONLINE TOOLS

1 Online Search Filter

Select your requirements and find the suitable antenna



2 IoT Solution Optimizer

Your Digital Twin!
Reduce time-to-market and development costs by simulating your full IoT device in minutes

POWERED BY:

3 Antenna Reference vs. RF Modules

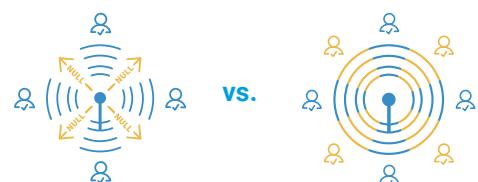
Select an RF module from our partners and choose the best antenna for your wireless device



ACTIVE ANTENNA SOLUTIONS

Active Steering™

Active Steering™ Antenna systems boost wireless connectivity significantly by continually optimizing the antenna radiation pattern. **Typical Application:** Video streaming devices



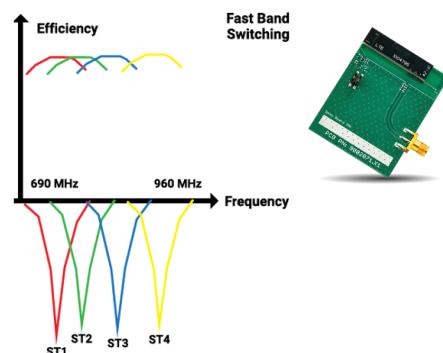
Passive Antennas
Have "null" areas of low emissions

Active Antennas
Eliminate nulls by "steering" emission in real-time by using intelligent algorithms and flexible antenna structure

Band Switching

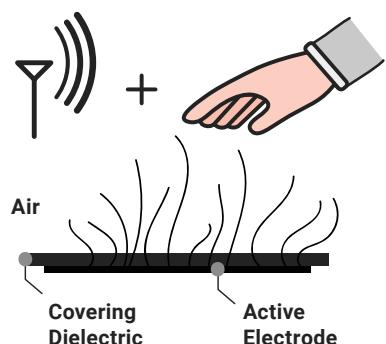
Ideal solution when the environment is reducing the original antenna bandwidth.

Typical Application: Small IoT devices



P-Sensor Hybrid

Proximity sensor function antenna is a power back-off for Specific Absorption Rate (SAR) requirements. **Typical Application:** Laptops



CUSTOM ANTENNAS

KYOCERA AVX Manufacturing Capabilities

China | Vietnam | South Korea

- LDS (Laser Direct Structuring)
- Stamped metal
- Plastic injection molding
- PCB & FPC (Flexible PCB)
- Ceramic LTCC
- Dual-shot molding
- Vertical integration

Laser Direct Structuring (LDS) Antennas

Antennas directly on the plastic carrier or housing

- 3D technology
- Design flexibility
- Smaller and thinner devices



DESIGN AND TESTING SERVICES

5 Global Design Centers | 25+ Antenna Measurement Systems

Pre-Certification Testing:

- TRP/TIS for 5G/LTE/LTE-M/NB-IoT
- TRP/TIS for LoRa
- SAR

Specialty Testing:

- AoA for BLE 5.1 & UWB
- Antenna phase center for GNSS receivers
- MIMO systems optimization
- Throughput testing for Wi-Fi

RF Consulting:

- Matching optimization
- Noise/harmonic issues debugging
- Custom designs

Simulations:

- HFSS or CST files available upon request
- Custom simulations



Automotive Chamber
600 MHz - 6 GHz



mmWave Chamber
18 GHz - 110 GHz



Anechoic Chamber
400 MHz - 18 GHz