Antenna Solutions for Every Application

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

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

3. Antenna Reference vs. RF Modules
   Select an RF module from our partners and choose the best antenna for your wireless device

STANDARD ANTENNAS

- Cellular 5G/4G/LTE/LPWN/ISM
- GNSS & SatCom
- BLE & Wi-Fi
- UWB

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

Patents Pending

1005193
UWB68
KAVX

1005194
UWB68
KAVX

Click or Scan
**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*

**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 backing off for Specific Absorption Rate (SAR) requirements.

*Typical Application: Laptops*

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**CUSTOM ANTENNAS**

**KYOCERA AVX Manufacturing Capabilities**

- **China**
  - LDS (Laser Direct Structuring)
  - Stamped metal
  - Plastic injection molding
  - PCB & FPC (Flexible PCB)

- **Vietnam**

- **South Korea**
  - 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**

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**DESIGN AND TESTING SERVICES**

- **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

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**Automotive Chamber**
600 MHz - 6 GHz

**mmWave Chamber**
18 GHz - 110 GHz

**Anechoic Chamber**
400 MHz - 18 GHz

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