Chip Antennas

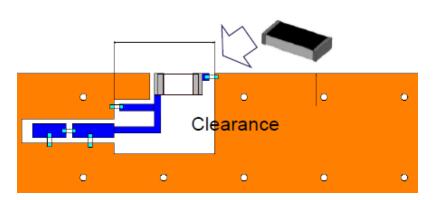
AA Amega

Application

- WLAN/BT/Zigbee (2.4GHz)
- WLAN Dualband (2.4/5GHz)
- GPS/Glonass

Feature

- SMD low process cost, instead of manual cost and mistake.
- Low Cost without customized expense.
- High Reliability embedded metallic radiation body, not expose in air.
- High Performance combine the system ground plane.
- Ultra Impact high K material and 3D structure.
- Standard instead of one type for one project, easy for stock control.
- Omni-directional
- Clearance needed

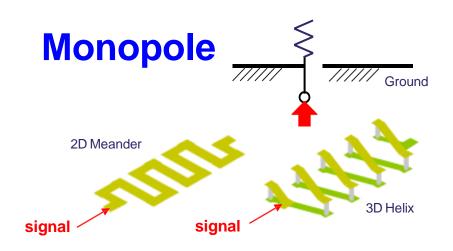


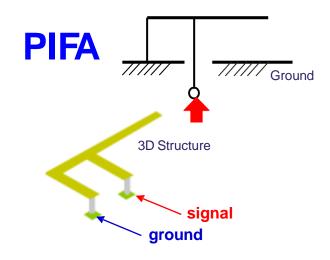


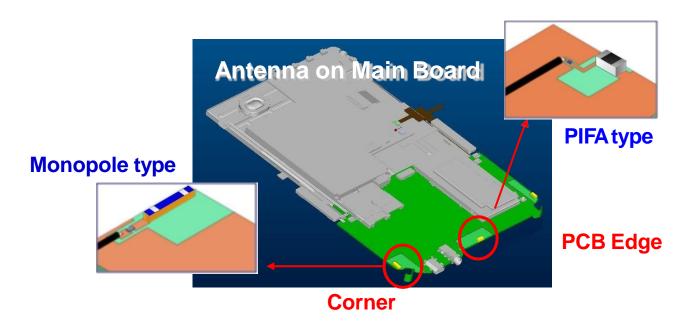


Monopole vs. PIFA









Smart Home (IOT)





Motion Detector



Smoke Detector



Surveillance



Thermostat



2.4GHz WLAN and Bluetooth











Home Appliance

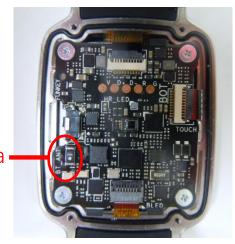
Wearable Devices



Smart Watch

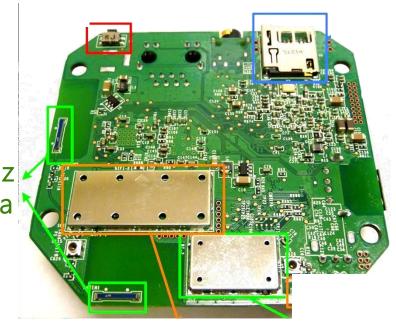


Bluetooth Chip Antenna • 2.0x1.2mm





Wireless Set-Top-Box & AP (Networking)



8010 2.4 GHz chip antenna



Antenna Tuning Service Procedure

1. Customer: To provide PCB or mockup

Layout and size of the PCB and the mockup will strongly affect the radiation performance of the antenna.

2. Technical Service: To evaluate performance

Amega would suggest a matching circuit and antenna position to make the antenna has the best radiation performance.

If the antenna performance was limited by the layout, Amega would provide an improvement suggestion for customers' reference.

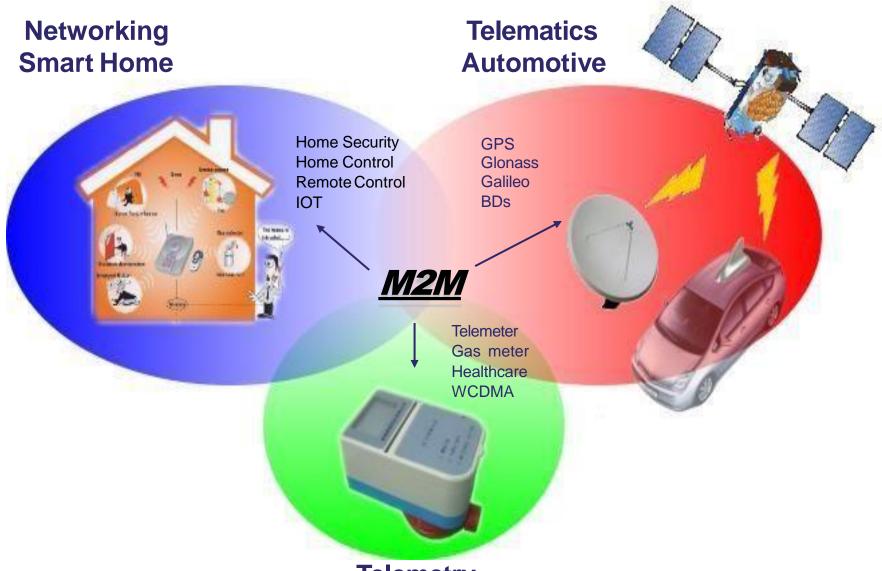
Clearance / PCB size / Position / Orientation / Environment

Performance report (radiation pattern / S11 or VSWR)

3. Customer: To confirm the performance

Customers have to confirm the real performance in field test because there will be another effect after power-on the device.

AA Amega



Telemetry
Smart meter





Wireless Module Telematics/
Automotive

Telemetry/
Smart Meter

Industrial/ Medical/POS

Networking/ Smart Home



- WWAN
- Bluetooth
- Zigbee



- Navigation
- Vehicle Tracking



- e-meter
- Surveillance



- POS terminal
- Automation



- Set-top-box
- Wireless router

Antenna Communication



