AMOTENNA

Based on advanced material technology and excellent RF design, Amotech’s Antennas offer customers with best solutions for the numerous applications which cover from hand held devices to automotive areas. From very low frequencies for FM antennas to UWB antennas, Amotech is dedicated to leading antenna technology.

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Factory
Incheon, Korea
68 TL Nanchon-dong, Namdong-Gu, Incheon city, Korea
Core Competitiveness

- RF design
- Compact size and low profile
- High efficiency
- Strategic RF partnership

- Process
- Diverse production technology
- Cost effective production
- Dominant market share; BT Antenna: 40% market share in Korea

- Materials
- Various kinds of material
- In-house material

Various Materials for Antennas

- LTCC
  - Bluetooth
  - GPS + BT (Dual band)

- Dielectric ceramic
  - Bluetooth
  - GPS patch

- PCB
  - Main
  - Bluetooth (customized)

- Ferrite
  - FM
  - DVB-H
  - RFID

Application

- WLAN / WIFI
- UWB
- WWAN
- BT

- BT Band
- Quad band
- GPS

- FM
- NFC
- DMB-S DVB-H

- BT
- GPS

- FM
- NFC
- DMB-S DVB-H
# Bluetooth / Wifi ANTENNAS

## Features
- LTCC chip type – Low cost
- Dielectric chip type – Space saving
- New chip type – Less sensitive to ground effect
- FPCB type – Space saving
- Frequency: 2400~2485 MHz

## Technology
- Accumulated in-house production technology involving ceramic process
- Optimization of antenna performance and customization based on various application experiences
- Strong R&D design capability

## Applications
- PDA
- Mobile phone
- DMB phone
- Laptop
- Headset
- Car entertainment
- MP3
- USB dongles

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Size (mm)</th>
<th>VSWR</th>
<th>Gain (dBi)</th>
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## GPS Antennas

### Features
- GPS Chip Antennas
- GPS Patch Antennas
- GPS/Glonass Antennas
- GPS/Bluetooth Antennas

### Applications
- Automotive
- Navigator
- PDA
- DSC

### Technology
- No 1 market share in automotive GPS built-in navigation system
- Matching service based on various experience
- High yield & capacity lead to competitive price and short term delivery
- Small size Antenna
- RoHS compliant

### Table 1: GPS Antennas

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Size (mm)</th>
<th>Frequency (MHz)</th>
<th>Gain@zenith (dBi)</th>
<th>Axial Ratio (dBi)</th>
<th>Polarization</th>
<th>G/P Size (mm)</th>
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### Table 2: Chip Type

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FM ANTENNAS

Features
- Chip Antennas
- Chip Antenna with Radiator
- PCB type

Applications
- Mobile phone
- PDA
- DSC

Technology
- Matching service based on various experiences
- Strong R&D design capability
- Small size
- Wide bandwidth
- RoHs compliant

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Size (mm)</th>
<th>Frequency (MHz)</th>
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MULTI FUNCTION ANTENNAS

Features
- GPS + BT Antenna
- GPS + Glonass Antenna
- WLAN dual band Antenna
- UWB Antenna

Applications
- Laptop
- Portable device

Technology
- Wide bandwidth
- Small size
- Less sensitive to hand effect

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Size (mm)</th>
<th>Frequency (MHz)</th>
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<td>GPS + Glonass</td>
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# MAIN ANTENNAS & RFID

## Features

- Main Chip Antennas
- ISM band Antenna
- RFID

## Technology

- Small size
- High durability
- Available to use on metal (30~70mm communication)

## Applications

- Mobile phone
- PDA

<table>
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<tr>
<th>Type</th>
<th>Part Number</th>
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- 433MHz
- 4.1 @ zenith
- 4.3 @ zenith
- 4.1
- 3.4
- 1.3
- 5
- 4.1