ANTENNA SOLUTIONS

Cellular | LTE | GSM | WiFi | WLAN | Bluetooth | BLE | GPS | GLONASS | BEIDOU

Applications: Connected Lighting, Wearables, Industrial Process Control, Home Automation, Geolocation, Asset Tracking

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### Featured Products

#### ACAJ-109
**Compact Chip Antenna**
Multiband 824MHz to 2170MHz with peak gain ranging from 1.3 to 6.4dBi with a 24x5.5x4.4mm footprint. Ideal protocols include GSM850, GSM900, DCS, PCS, & UMTS.

#### APAMPSBJ-144
**External Active Multiband Antenna**
Covers AMPS, GSM, DCS, PCS, 3G/4G, WiFi/Bluetooth, LTE, IP67, IK09, IP69K approved and ideal suit for vehicular systems, industrial, commercial and infrastructure applications.

#### AMCA31-2R450G-S1F
**Miniature Chip Antenna**
Provides an average -1dBi of gain over 2405 MHz to 2495MHz in a compact 3.2x1.6x1.2mm and is ideal for IoT and wearables using Bluetooth, WiFi or Zigbee protocols.

#### ACA-107
**(8.0 x 6.0 x 1.2mm)**
Optimized for ultra-wideband (UWB) application operating from 3200 to 7200MHz. Applications include multi-gigabit broadband and high accuracy real time location tracking (RTLS).

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### Flexible NFC Antennas

Abracon’s flexible near field communications (NFC) antennas are designed to operate at 13.56MHz. NFC is a set of RF communications protocols that transmit data at very close range, requiring the transmit and receive antennas to be within a few centimeters from each other. NFC is useful in applications where the two devices come in close contact with each other for example identity authentication cards, payment systems, asset tracking and file or picture sharing at close range.

<table>
<thead>
<tr>
<th>FLEXIBLE NFC</th>
<th>PN</th>
<th>BANDS AVAILABLE (MHz)</th>
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<tbody>
<tr>
<td>ANFCA-1510-A02</td>
<td>ANFCA-2515-A02</td>
<td>ANFCA-2525-A02</td>
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### Patch Antenna Optimization Services

Abracon provides custom PCB test services that help match patch antennas to your board and system, delivering optimal gain, efficiency and range.

**Step 1. PLACE YOUR ORDER**
Place the order with your distributor using manufacturer part number: ABAOS-SWK.

**Step 2. SHIP YOUR SYSTEM**
Ship your RF system and selected antenna to Abracon.

**Step 3. WE TUNE AND OPTIMIZE**
An optimized patch antenna design and new part number that matches your exact system will be generated within 5 weeks.

**Step 4. GO TO MARKET**
Use the new custom part number and you’re ready for production.