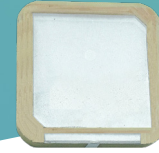
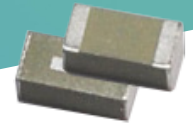


# ANTENNAS FOR THE IoT

2G/3G/4G LTE | Wifi/Bluetooth/Zigbee  
ISM | LPWA | GPS/GNSS Navigation | LoRa  
RFID



**APAKN2504-C2G-T**  
Patch Antenna | 3.6dBi Gain  
GNSS/GPS/GLONASS



**ACAG0301-5500-T**  
Chip Antenna | 4.5dBi Gain  
WIFI/Bluetooth/ZigBee, ISM

## Featuring High Gain up to 7.2dBi Miniature Chip Antennas, High Gain Patch, and Combo External Antennas

Abracon introduces a new line of antennas designed to address connectivity in the Internet of Things. The IoT Antennas span over 7 protocols including 4G, GPS, LPWA, WiFi, and GSM. These products includes a broad mix of external, external active, chip, patch, and RFID reader antennas supporting high gain and dual band options.

| Protocol  | Antenna Type    | Abracon PN          | Description                 | Dimensions (mm)   | Gain (dBi)  |
|---|-----------------|---------------------|-----------------------------|-------------------|-------------|
| 2G/3G   | External        | AEACCA115021-S850   | 2G/3G/GSM Ext BLADE         | 115.6 x 217 x 5.8 | 2           |
| 4G/LTE  | External        | AEACAC198013-S698   | 4G/LTE Ext WHIP             | 198.0 x Ø 13.0    | 3           |
|   | External        | AEACCA115021-S698   | 4G/LTE Ext BLADE            | 115.6 x 217 x 5.8 | 2           |
| GNSS/GPS/GLONASS  | Chip            | ACAG0301-1575-T     | 1.575GHz GNSS/GPS Chip      | 3.2 x 1.6 x 0.6   | 4.18        |
|   | External Active | AEAGMK148060-S1575  | GLONASS/BEIDOU/GPS DOME     | Ø 148.0 x 60.0    | 4.5         |
|   | Patch           | APAKN1304-C2G-T     | Dual Band GPS/GLONASS Patch | 13.0 x 13.0 x 4.0 | 2.6   2.4   |
|   | Patch           | APAKN1804-C2G-T     | Dual Band GPS/GLONASS Patch | 18.0 x 18.0 x 4.0 | 2.8   2.9   |
|   | Patch           | APAKN2504-C2G-T     | Dual Band GPS/GLONASS Patch | 25.0 x 25.0 x 4.0 | 3.6         |
| ISM, LPWA, LoRa   | Chip            | ACAG1204-433-T      | 433MHz LPWA/ISM Chip        | 12.0 x 4.0 x 1.6  | -1.72       |
|   | Chip            | ACAG1204-868-T      | 868MHz LORA/LPWA/ISM Chip   | 12.0 x 4.0 x 1.6  | 2.63        |
|   | Chip            | ACAG1204-915-T      | 915MHz LORA/LPWA/ISM Chip   | 12.0 x 4.0 x 1.6  | 3.42        |
|   | External        | AEACAC053010-S433   | 433MHz ISM, LPWA Ext WHIP   | 53.4 x Ø 10.4     | 2           |
|   | External        | AEACAQ190012-S868   | 868MHz LORA/LPWA/ISM WHIP   | 190.0 x Ø 12.9    | 3.5         |
|   | External        | AEACAQ190012-S915   | 915MHz LORA/LPWA/ISM WHIP   | 190.0 x Ø 12.9    | 3.5         |
| WIFI/Bluetooth/ZigBee, ISM  | Chip            | ACAG0201-2450-T     | 2.4GHz WIFI/BL/ISM Chip     | 2.0 x 1.25 x 0.6  | 2.7         |
|   | Chip            | ACAG0301-24505500-T | 2.4GHz/5GHz WIFI/BL Chip    | 3.2 x 1.6 x 1.2   | 2.23   4.05 |
|   | Chip            | ACAG0301-5500-T     | 5GHz WIFI/ISM Chip          | 3.2 x 1.6 x 1.2   | 4.5         |
|   | Chip            | ACAG0801-2450-T     | 2.4GHz WIFI/BL/ISM Chip     | 8.0 x 1.0 x 1.0   | 7.29        |
|   | External        | AEACAC025009-S2400  | 2.4GHz WIFI/BL/ISM Ext WHIP | 25.9 x Ø 9.5      | 2           |
|   | External        | AEACAQ190012-S2400  | 2.4GHz WIFI/BL/ISM Ext WHIP | 190.0 x Ø 12.9    | 5           |
|   | Patch           | APAKN1304-S5517-T   | 5GHz WIFI/ISM Patch         | 13.0 x 13.0 x 4.0 | 6           |
|   | Patch           | APAKN2504-S2448-T   | 2.4GHz WIFI/BL/ISM Patch    | 25.0 x 25.0 x 4.0 | 7           |
| Multi Protocol<br>WIFI/Bluetooth/ZigBee,<br>ISM, GNSS/GPS/GLONASS | Chip            | ACAG0301-15752450-T | 2.4GHz Dual WIFI/GPS Chip   | 3.2 x 1.6 x 1.2   | 1.21   3.18 |
|   | External Active | AEACBK046014-C2WG   | WIFI/GPS Combo Ext Active   | Ø 46.6 x 14.5     | 2           |
| RFID Reader Antennas  | RFID            | ARRKP4065-S915A     | 915MHz 1.5dBi Reader RFID   | 40.0 x 40.0 x 6.5 | 1.5         |
|   | RFID            | ARRKP5062-S915B     | 915MHz 3dBi Reader RFID     | 50.0 x 50.0 x 6.2 | 3           |
|   | RFID            | ARRKP7059-S915B     | 915MHz 4dBi Reader RFID     | 70.0 x 70.0 x 5.9 | 4           |