

佳邦科技 TECHNOLOGY CO., LTD.

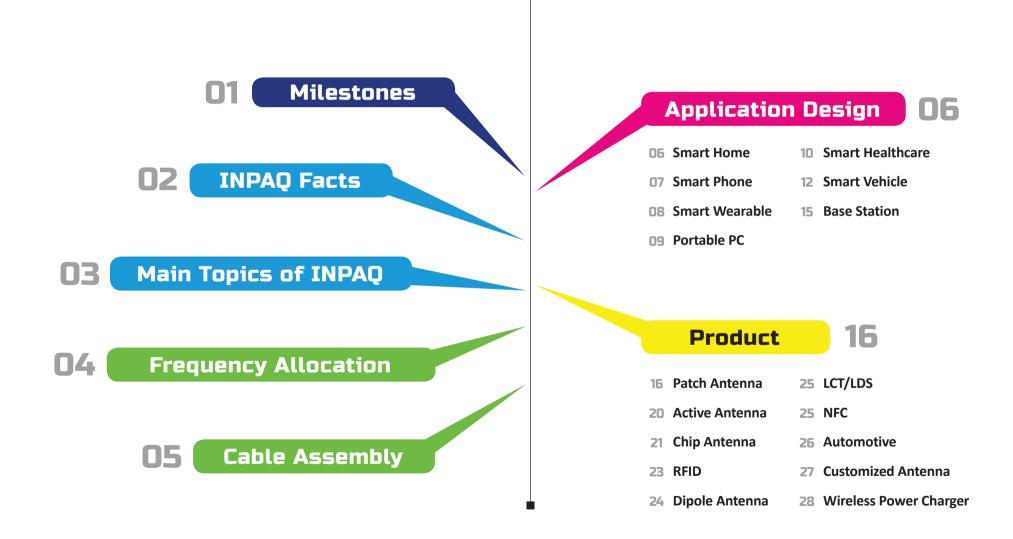
RF SOLUTIONS

CONNECTING to THE WORLD

www.inpaq.com.tw www.inpaqgp.com



Contents



Milestones Taichung Factory Moved to Taichung-HQ moved to Science-Based Hsinchu-Science-**Industrial Park** Based Industrial INPAQ (Korea) Park Merger of E-Tronic established Corporation INPAQ (Taiwan) established 2017 2012 2004 2002 2005 2009 2006 2007 2001 1998 Taiwan for LTCC & IPO in Taiwan (6284)INPAQ (Suzhou) established HQ moved to



INPAQ Facts



Main Topics of INPAQ



- Smart Speaker
- Smart Plug
- Smart Meter
- Security, Doorbell
- Connected Home Device



Phone & Wearable

- Smart Phone/Watch
- Mobile Pay (NFC)
- Smart Shoes/Glasses
- Smart Textile
- Smart Accessories
- Wireless Power Charging



Consumer Electronics

- Gaming
- VR/AR/MR
- NB/PC/Tablet
- Rugged PC/Tablet



- Wearable
- Baby Monitor
- Home Care/Diagnose
- Medical Monitor



- Autonomous Car
- Car Entertainment
- Telematics Control Unit
- V2X/DSRC/ETC
- GNSS/cm-level GNSS
- ADAS
- Wireless Power Charging



- LoRa
- NB-IoT
- LTE Cat M1
- Networked Devices
- AP Router
- NFC
- RFID Reader & Tags



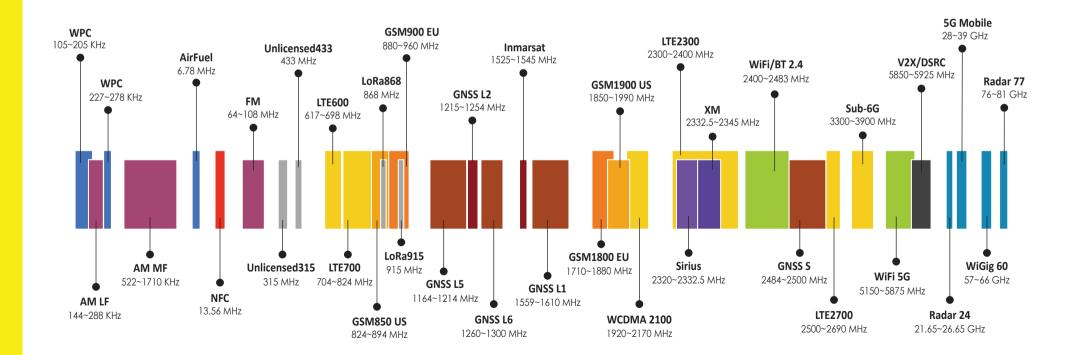
- mmWave
- Sub-6G
- 10 Gbps for next Telecommunications
- Femtocell
- Smart Industry



Frequency Allocation

Application





Cable Assembly

Connector: HRS/I-PEX, SMA, SMB, MCX, MMCX, Fakra, GT5, GT16 assemblies in different genders and mounting styles.



Coaxial Cable: 0.81, 1.13, 1.32, 1.37, RG174, RG316, 1.5DS, CFD200 cable in any length



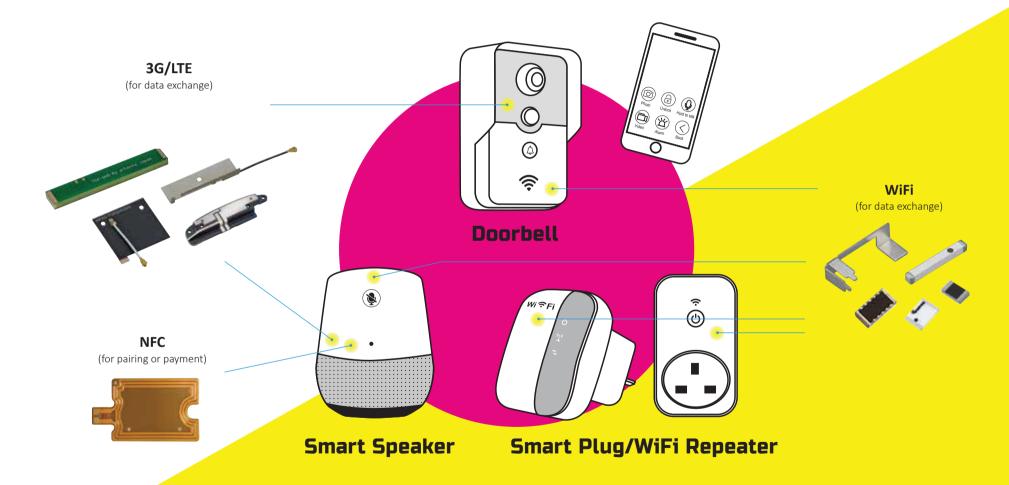
Please feel free to contact us for more connectors & cables.



Application Design

Smart Home





Smart Phone

Mobile

NFC

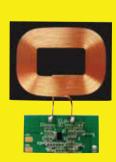
(for pairing or payment)





WPC

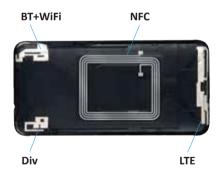
(power charging with better waterproof)



RX WPC



RX WPC+NFC



LCT

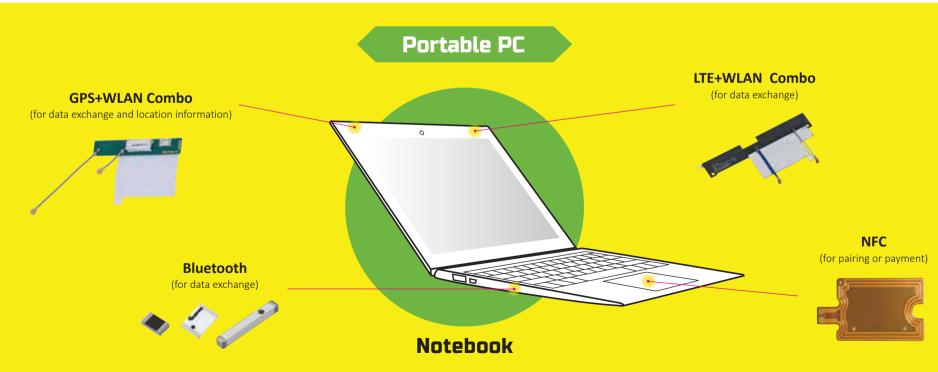
(laser circuit technology, antenna formed on ceramic or plastic housing)





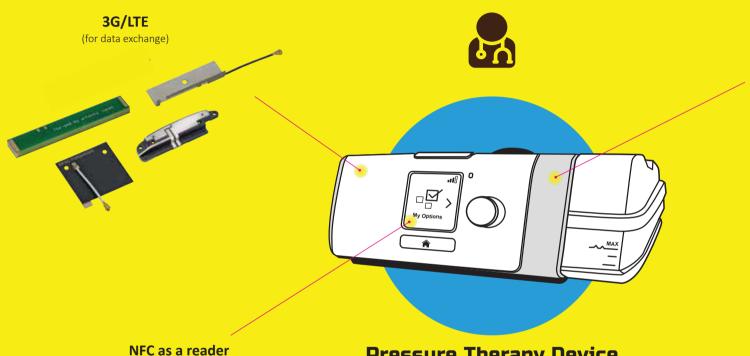
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Smart Healthcare



Bluetooth/WiFi (for data exchange)



(for recall personal configuration and BT/WiFi pairing)

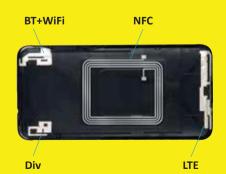


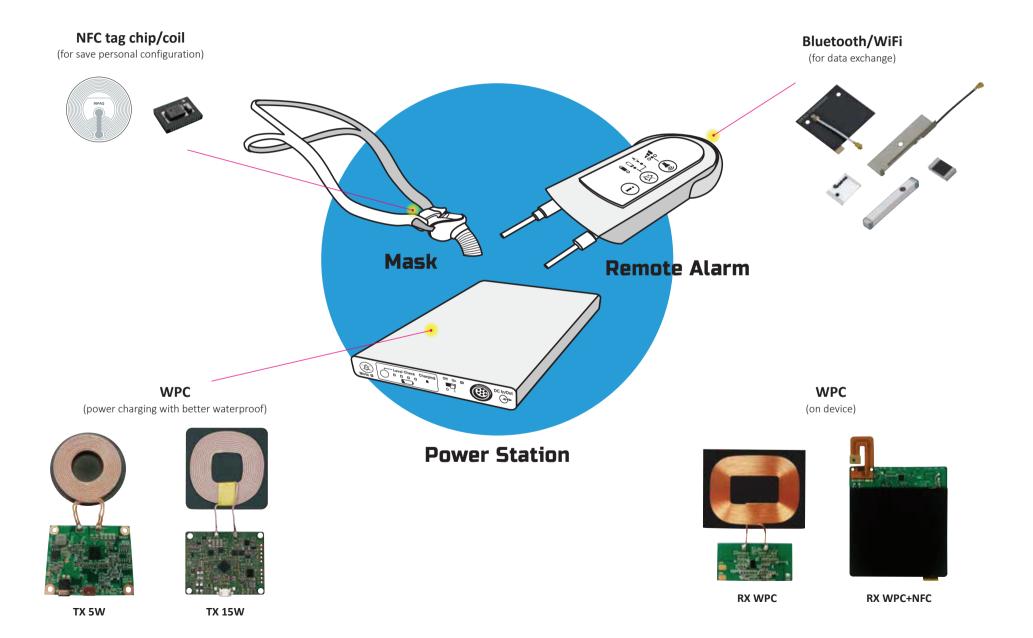




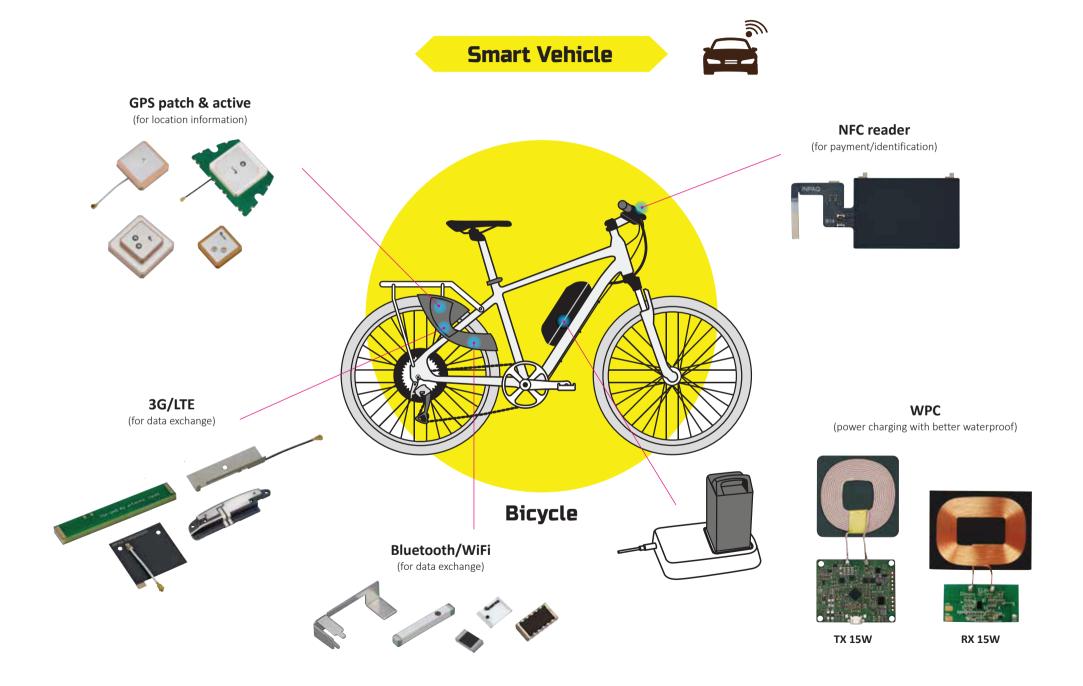
LCT (laser circuit technology, antenna formed on ceramic or plastic housing)



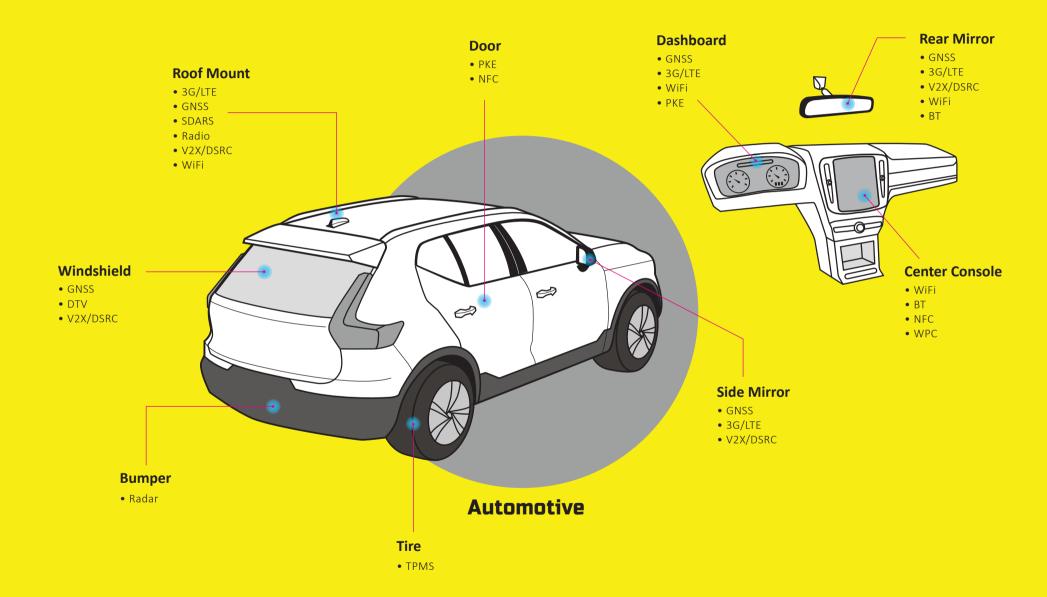




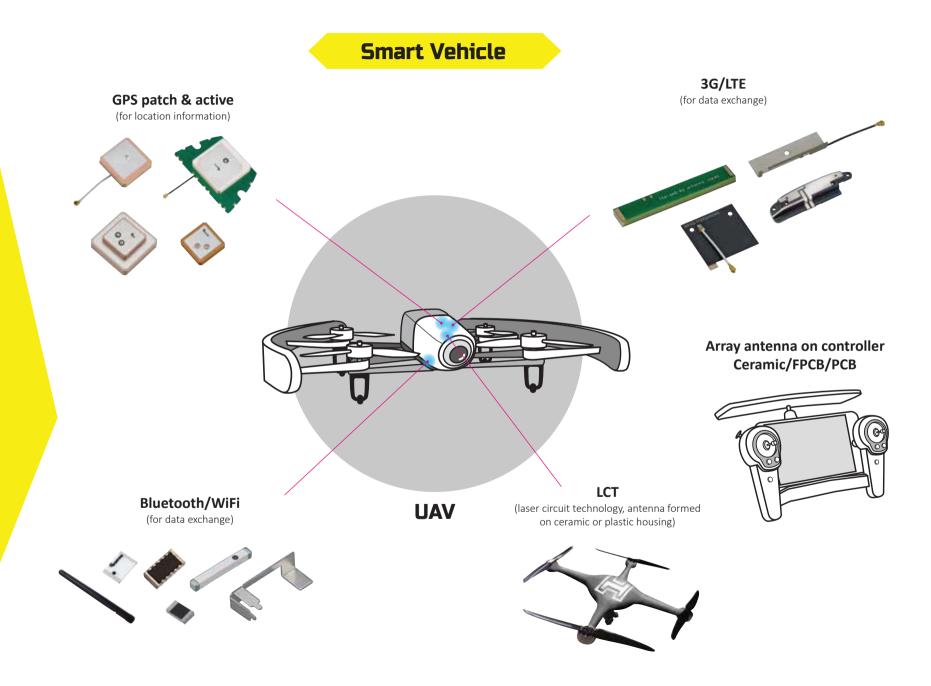




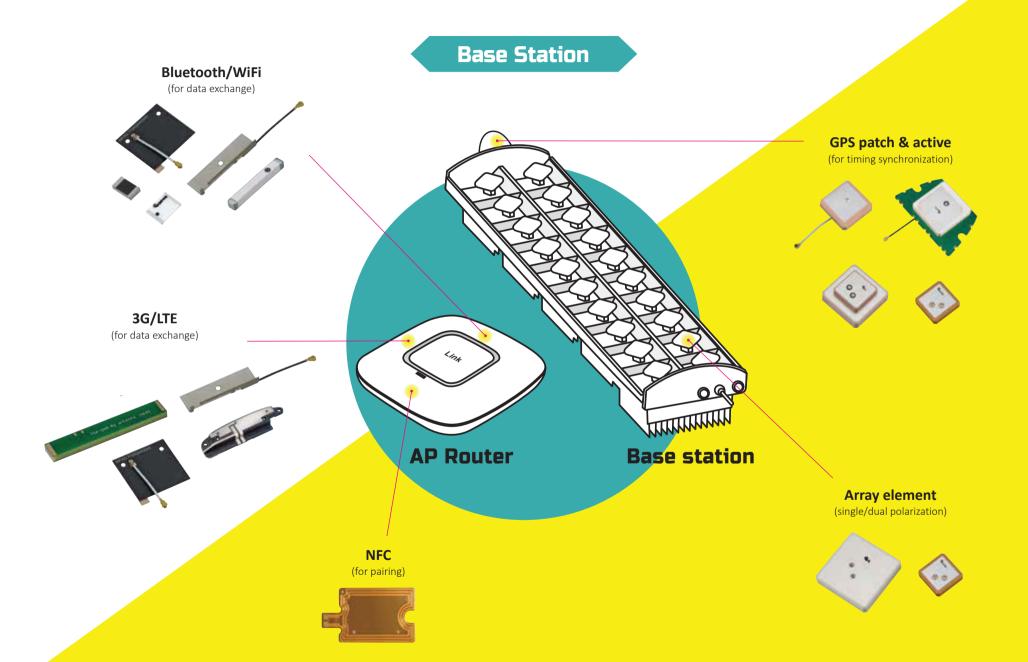
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Product

PA1590MF6G-XXX-XX 36x36x6mm PA1590MF4G-XXX-XX 36x36x4mm **PAT1585MH6G-101-18M** 32x32x6mm

PAQ1585MH4G-102-18 32x32x4mm **PA1590Ml6G-XXX-XX** 25x25x6mm

PA1590MI4G-XXX-XX 25x25x4mm

Patch Antenna

GNSS Circular Pol.













GNSS Circular Pol.













PA1590MI2G-144-2ZM 25x25x2mm PA1590MJ6G-102-16M 18.4x18.4x6mm **PA1590MJ4G-XXX-XX** 18.4x18.4x4mm

PA1590MJ2G-XXX-XX 18.4x18.4x2mm **PA1590MS4G-XXX-XX** 18x18x4mm

PA1590MK4G-XXX-XX 15x15x4mm

PA1590MQ5G-XXX-XX 13x13x5mm

PA1590MR6G-XXX-XX 12x12x6mm

PA1590MR4G-XXX-XX 12x12x4mm **PA1575MQ4S-123-1Z** 10x10x4mm

PA1575MQ4S-124-1Z 9x9x4mm

PA1575MQ4S-125-1Z 6x6x4mm

GNSS Circular Pol.













GNSS Circular Pol. (dual pin)





GNSS Linear Pol.





Curve Patch (GNSS)



PA1582MF6G-136-2ZM 36x36x6mm (2pin) AR 3dB all band PA1590MI6G-136-1ZM 25x25x6mm (2pin) AR 3dB all band **LA1575MS4G-XXX-XXX** 20.5x6.2x4mm

LA1575MK4G-XXX-XXX 20.2x6x3.8mm 16x6x4mm **GPS434N-N0-00-A** 15x15x2mm



PADGPS-I4H10G-101-1Z 25x25x4+38x38x10mm PADGPS-I4H4G-101-1Z 25x25x4+38x38x4mm PATGPS-I6H10G-101-1ZM 25x25x6+38x38x10mm (2pin) L1L2L5 or L1L2L6 PATGPS-I6H10G-102-1ZM 25x25x6+38x38x10mm (4pin) L1L2L5 or L1L2L6 **PAGS-I4F2P2G-XXX-XXX** 25x25x4+36x36x4mm

PATGS-I5F4G-100-ZZM 25x25x5+25x25x4mm

Patch Antenna

GNSS L1/L2/L5/L6









GNSS+SDARS





SDARS









WiFi 2.4 GHz



PAS23XXMF4G-XXX-XXX 36x36x4.2mm PAS2333MF4G-148-1ZS 28x28x4mm PAS2333MF6G-120-18M 25x25x6mm **PAS23XXMH4G-XXX-XXX** 22.4x22.4x4mm

PA2400MF4G-157-18M 25x25x4mm PA5800MF4G-116-11

13x13x4mm

 PA5500MF4G-XXX-XX
 PA5800MF4G-112-111

 13x13x4mm
 13x13x4mm

PA5800MF6G-112-11 13x13x6mm PAR868MJ6G-113-18M 36x36x6mm PAR915MJ6G-112-18M 36x36x6mm

WiFi 5 GHz



ETC 5.8 GHz (Broadside)



V2X/DSRC 5.8 GHz (Omni)



RFID 868 MHz



RFID 915 MHz



Patch Antenna (SMD)

GNSS Circular Pol.













PA1575MZ50I4G-XX-SMD 25x25x4mm

PA1575MZ50J4G-XX-SMD 18.4x18.4x4mm PA1575MZ50J2G-XX-SMD 18.4x18.4x2mm PA1590MS4G-100-SMD-S 18x18x4mm PA1590MK4G-100-SMD 15x15x4mm PA1575M03.5G-102-SMD-S 12x12x3.5mm



B3G02N-S5-00-A 36x36x9.75mm **GPSGLONASS03N-S3-03-A** 25x25x8.25mm

GPSH237N-N3-37-A 18.4x18.4x6.65mm

GPS391N-S3-00-A 13.4x13.4x5.6mm

GPSH212N-N3-13-A 12x12x6.35mm

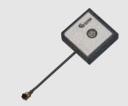
GPSH312N-N3-04-A 10x10x6.55mm

Active Antenna

GNSS











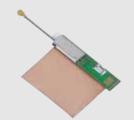


GNSS













GPSH245N-N3-07-A 9x9x6.55mm

GPSH198N-N3-39-A 20.2x6x6.55mm

GPSH208N-N3-37-A 16x6x6.55mm

GPS396N-S3-00-A 37.0x8.0x2.5mm

GPS401N-S3-00-A 30.0x8.0x2.5mm

GPSWLAN09N-S1-00-A 64.6x12.0x2.8mm





ACLX-5036-A1-CC-S ACM4-5036-A1-CC-S ACD-5036-A3-CC-S ACD-3216-A1-CC-S ACM0-3216-A1-CC-S ACM5-3216-A1-CC-S 3.2x1.7x0.5mm 3.2x1.7x0.5mm 5.2x3.7x0.7mm 5.2x3.7x0.7mm 5.2x3.7x0.7 mm 3.2x1.7x0.5mm Chip Antenna **GNSS L1/L2/L5/L6 GNSS** GNSS+2.4 GHz GNSS+2.4/5 GHz LTE 433 MHz 915 MHz FM (315) (868, LoRa, NB-IoT) WAG-H-LTE4-00-001 WAG-P-LTE8-00-003 ACF-2505-A1-MF-S ACH-1604-A0-MF-S ACH-5036-A1-CC-S FMCN2F100G 45x5x6mm 50x8x3.2mm 25x5x0.8mm 16.0x4x0.8mm 5.2x3.7x0.7mm 25x5x0.8mm

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PAR915MJ6G-112-18M

36x36x6mm



Customized RFIDXXN PAR868MJ6G-113-18M 36x36x6mm



DAM-L8-B-N0-000-03-13 87mm (Gain: 2 dBi) DAM-L12-B-N0-000-04-14 173mm (Gain: 5 dBi) **DAM-G0-B-M1-180-02-08** 102mm (Gain: 2 dBi)

DAM-L8-H-N0-000-03-14 87mm (Gain: 2 dBi) DAM-C2-H-N0-000-04-02 194mm (Gain: 5 dBi) DAM-Q4-B-N0-000-04-14 362mm (Gain: 9 dBi)

Dipole Antenna







2.4/5 GHz









Others (433 MHz)





DAM-P8-K-N0-000-18-13 115.5mm (Gain: 2 dBi) 824~894, 1920~2170 MHz DAM-L8-K-N0-000-03-13 87mm (Gain: 2 dBi) 824~960, 1710~2170 MHz DAM-D4-R-N0-000-04-02 239mm (Gain: 4 dBi) 698~960, 1710~2700 MHz **DAM-P2-G-N0-000-22-03** 51mm (Gain: 1 dBi)

DAM-P2-G-N0-000-18-03 51mm (Gain: 1 dBi)

NF-C-F6-R0-073 21.5x24.5x0.27mm

NF-C-F4-R0-005 50x40x0.25mm

NF-C-F10-R0-083 115x105x1.38mm

NF-C-F10-R0-02-001 51x36.8x0.26mm

ACN-9822-A4-S 9.8x2.2x0.4mm ACN-5036-A1-PC060-S 5.0x3.6x1.3mm

NF-TAG-F6-R0-002 30x20x1mm

NF-TAG-F0-R0-009 Ø14.5x0.3mm

NF-X-XX-R0-XXX 110x125mm

NFC

Antenna





Tag







Ferrite



LCT/LDS

Ceramic



Mobile





IoT



Automotive



WiFi+BT

LTE

LTE+WiFi+BT+GPS

WiFi MIMO

AM/FM



GPSLX09U6W-S5-00-A 60x63x26mm IP66 B3G02G-S3-XX-A 49.14x46.14x15.94 IP66 **GPSGLONASS03D-S6-XX-A** 37.4x34.0x12.95mm IP66

GPSGLONASS13S3W-S6-00-A 72x59x21mm IP66 **GPS03B-D3-00-A** 37.0x8.0x2.8mm IP66 GPS08H-S3-0020-A 49.14x46.14x14.3mm IP66

Automotive

L1/L2/L5/L6



GNSS







GNSS



GNSS+3G/LTE



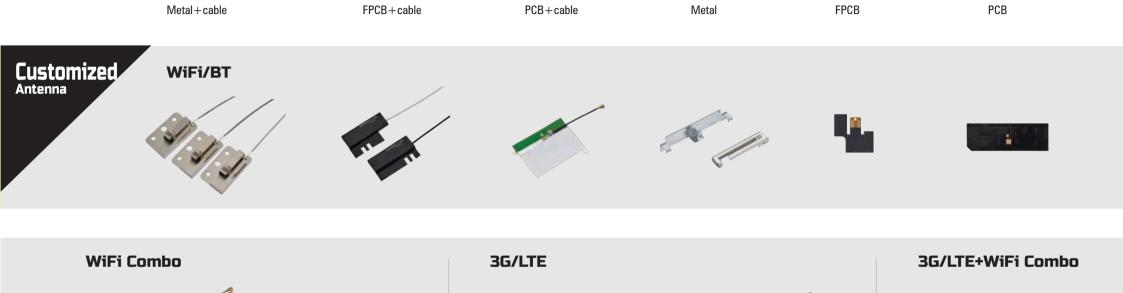
GNSS+LTE+WiFi



GNSS+Radio



GPS10D-S3/S5-XX-A 37.5x34.5x12.5mm IP66 GPS316K-S5-29-A 37.4x34.0x12.95mm IP66 GPS01R-S3-46-A 120x39.8x11mm IP66 GPS354P-S3-12-A 60x60x15mm IP66 GNCLTEWiFi36U5W-S3-00-B 67x138x11mm IP66 GNSAMFM-25S1W-S5-00-B 170.42x70x70.9mm IP66





WPC-W-P-TX-MPA2-001 53x53x5mm Ferrite: Mn-Zn WPC-W-P-TX-A11-003 Ø50x3.8mm Ferrite: Mn-Zn WPC-W-P-TX-A13-001 56.5x98.3x3.5mm Ferrite: Ni-Zn WPC-W-P-TX-CF-001 Ø27x0.76mm Ferrite: Ni-Zn WPC-W-P-TX-CF-003 Ø23x2.1mm Ferrite: Ni-Zn

Wireless Power Charger

Coil Tx

MPA2-15W

A11-5W

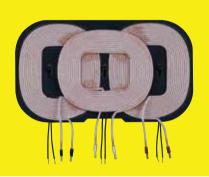
A13-5W

Wearable

Wearable











Coil Rx









15W

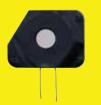


5W



Wearable

Wearable (with magnet)



WPC-W-P-RX-CF-023 50x94.9x0.7mm (FPCB) Coil Dim: 50x40x0.7mm Ferrite: Ni-Zn WPC-W-P-RX-FF-009 52x77.63x0.3mm Ferrite: Nanocrystalline (Mn-Zn also available) WPC-W-P-RX-FF-XXX 60x78x0.25mm Ferrite: Mn-Zn WPC-W-P-RX-CF-029 30x30x0.71mm Ferrite: Ni-Zn WPC-W-P-RX-CF-004 16x10x0.8mm Ferrite: Ni-Zn WPC-W-P-RX-CF-017 18x24x0.85mm Ferrite: Amorphous

WPC-W-A-TX-MPA2-002 40x50x3.7mm (PCBA) Coil Dim: 53x53x5mm

WPC-W-A-TX-MPA5-002 62x50x8.9mm (PCBA) Coil Dim: Ø50x4.1mm

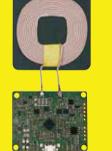
WPC-W-A-TX-A11-015 42.75x32x4.5mm (PCBA) Coil Dim: Ø35x2.5mm

Qi Compliance-15W

Qi Compliance-5W (Support Samsung, Apple Quick Charge 10W)

Wearable-2.5W







WPC-W-A-TX-A11-017

20x45x2.7mm (PCBA)

Coil Dim: Ø50x3.8mm

Qi Compliance-5W

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Qi Compliance-15W

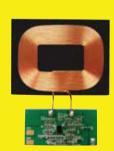
Module Rx

WPC-W-A-RX-CF-009

30x30x2.35mm (PCBA)

Coil Dim: 40x50x0.25mm

Qi Compliance-5W



WPC-W-A-RX-CF-001 15x30x1.2mm (PCBA) Coil Dim: 33x43x0.8mm

Qi Compliance-5W (WPC+PMA+NFC)



WPC-D-A-RX-CF-001 11.65x52.2x1.16mm (PCBA) Coil Dim: 48.65x52.5x1mm

Wearable-1.5W



WPC-W-A-RX-CF-010 15x7x1.1mm (PCBA) Coil Dim: Ø19.5x0.9mm



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