Combo External Antennas (4G/Wi-Fi/GPS)



Fully balanced, IP66-rated antenna offers high 4G, Wi-Fi and GPS signal performance in telematics, remote monitoring and other applications

Features and Advantages



Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Владикавказ (8672)28-90-48 Владимир (4922)49-43-18 Волгоград (844)278-03-48 Вологра (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Капута (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Курган (3522)50-90-47 Липецк (4742)52-20-81

Россия +7(495)268-04-70

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Ноябрьск (3496)41-32-12 Новосибирск (383)22-786-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Петроазводск (8142)55-98-37 Псков (8112)59-10-37

Петрозаводск (8142)55-98-3; Псков (8112)59-10-37 Пермь (342)205-81-47 Казахстан +7(7172)727-132 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Саранск (8342)22-96-24 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Сыктывкар (8212)25-95-17 Тамбов (4752)50-40-97 Тверь (4822)63-31-35 Киргизия +996(312)96-26-47

Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тули (4872)33-79-87 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Улан-Удэ (3012)59-97-51 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93

Combo External Antennas (4G/Wi-Fi/GPS)



Specifications

REFERENCE INFORMATION

Packaging: Box

Use With: FAKRA connectors (Model C/D/E) for series 206866 and (Model C/D) for series 211297

Designed In: Millimeters

RoHS: Yes Halogen Free: Yes Glow Wire Compliant: No

ELECTRICAL (GPS ANTENNA)

Frequency Range: 1,575.42±1.023 MHz for series 206866 and 1561.098±2.046 MHz, 1,575.42±1.023 MHz for series 211297 Average Total Efficiency: 26.2% for series 206866 and 22.3% (1561.098±2.046 MHz), 22.1% (1,575.42±1.023 MHz) for series 211297 Peak Gain: 3dBi based on 70 by 70mm ground plane (206866) and -2.1dBi based on 70 by

70mm ground plane (211297)

Polarization: RHCP

ELECTRICAL (GPS LNA)

Frequency Range: 1,575.42±1.023 MHz DC Voltage: 3 to 5V (206866) and 3V (211297)

DC Current: 11±3mA (at 3.3V) Noise Figure: ≤1.5 dB

Gain: 28±3 dB (206866) and 25±3 dB (211297)

ELECTRICAL (4G ANTENNA)

Frequency Range: 824 to 960 MHz, 1.71 to 2.60 GHz for series 206866 and 211297 Average Total Efficiency: 21.6% (824 to 960 MHz), 27.2% (1.71 to 2.60 GHz) for series 206866 and 33.6% (824 to 960 MHz), 26.8% (1.71 to 2.60 GHz) for series 211297

Peak Gain: -0.5 dBi type (824 to 960 MHz), 0 dBi type (1.71 to 2.60 GHz) for series 206866 and -0.8dBi type (824 to 960 MHz), 0.4 dBi type (1.71 to 2.60 GHz) for series 211297

Polarization: Linear

ELECTRICAL

(WI-FI AND BLUETOOTH ANTENNA) (206866)

Frequency Range: 2.4 to 2.5 GHz Average Total Efficiency: 23.3%

Peak Gain: -2.7 dBi Polarization: Linear

MECHANICAL

Pull Force: ≥15N

PHYSICAL

Housing: ABS IP Rating: IP66 PCB: FR4

Shielding Case: Tin plate

Cable: RG174 Adhesive: 3M

Operating Temperature: -40 to +85°C

Ordering Information

Series No.	Operating Frequencies	Cable Length	Cable Connectors
206866	GPS:1575.42 ± 1.023 MHz 4G:824 to 960 MHz, 1.71 to 2.60 GHz Wi-Fi: 2.4 to 2.5 GHz	3.0m	FAKRA (Model C/D/E)
211297	GPS: 1561.098±2.046 MHz 1575.42 ± 1.023 MHz 4G:824 to 960 MHz 1.71 to 2.60 GHz	3.0m	FAKRA (Model C/D)

Custom Product	Cable Connectors
Contact Molex	SMA, MMCX and others

Multi-Hub 5-in-1 Antenna

(5G MIMO/Wi-Fi MIMO/GPS)

molex

Multi-Hub 5-in-1 Antenna features 2 x 5G, 2 x Wi-Fi and 1 x GPS functionalities with an IP67 rating and easy mounting in a low-profile design, making it ideal for advanced commercial vehicle and wireless applications

Features and Advantages

5-in-1 antenna with built-in cellular (LTE, 5G) MIMO *2, Wi-Fi (tri-band) *2 and GPS features

Makes it ideal for diverse and advanced applications



Multi-Hub 5-in-1 Antenna

SMA connector

Facilitates adjustable cable length and connectors adjustable to FAKRA:



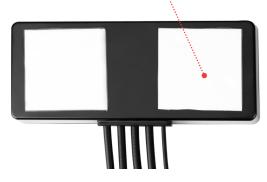


Metal surface mount

Allows mounting directly on the metal surface without compromising RF performance

Backside adhesive mounting

Makes it ideal for external applications



Compact footprint

Provides space savings

Applications

Commercial Vehicles

Networking

Smart vehicles

T-boxes

Specialized vehicles

loT

IoT and IT infrastructure

Advanced industry IoT

Telecommunications/Networking

Infrastructure/Networking

Applicable industry standards

IP67

RoHS



Advanced industry IoT



Smart transportation



Intelligence vehicle

Multi-Hub 5-in-1 Antenna (5G MIMO/Wi-Fi MIMO/GPS)



Specifications

REFERENCE INFORMATION

Packaging: Bag/Carton

Mates With.: SMA straight cable plugs (male)

Designed In: Millimeters

RoHS: Yes

ELECTRICAL

Frequency (MHz): Cellular 5G: 698 to 960MHz;

1710MHz to 5GHz

Wi-Fi: 2.4GHz; 5GHz; 6GHz

GPS: 1575MHz RF Power (Watt): 2.0

Return Loss (dB): See details in Product Specification

Average Total Radiation Efficiency

Peak Gain (dBi) Impedance (Ohms): 50

MECHANICAL

See details in Product Specification

PHYSICAL

Size (mm): 155.00 by 65.00 by 20.00

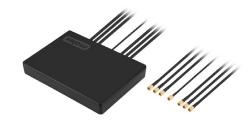
(Cable not included)

Material: Refer to Sales Drawings Operating Temperature: -40 to +85°C



Molex Multi-Hub 7-in-1 Antenna (5G MIMO*4/Wi-Fi MIMO*2/GNSS) >

The low profile Multi-Hub 7-in-1 Antenna features 2 x LTE/5G full-band, 2 x LTE/5G high- band, 2 x WI-FI, and 1 x GNSS functionalities with an IP67 rating and easy mounting, and is ideal for advanced commercial vehicle and wireless applications.



Molex Multi-Hub 7-in-1 Antenna (5G MIMO*4/Wi-Fi MIMO*2/GNSS)

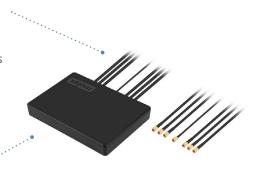
FEATURES AND ADVANTAGES

7-in-1 Antenna with Built-in Cellular (LTE, 5G) MIMO*4, Wi-Fi (tri-band) *2 and GNSS Features

Makes it ideal for diverse and advanced applications



Facilitates adjustable cable length and connector adjustable to FAKRA and HFM connectors





Backside Adhesive MountingMakes it ideal for external applications

APPLICATIONS

Commercial Vehicles

Networking Smart vehicles T-boxes Specialized vehicles

Wireless Infrastructure

IoT and IT infrastructure Advanced industry IoT

Telecommunications/NetworkingInfrastructure

Applicable Industry standards IP67 RoHS



Commercial Vehicles



Auto Guided Vehicles



Telematics Unit in Automotive



Molex Multi-Hub 7-in-1 Antenna (5G MIMO*4/Wi-Fi MIMO*2/GNSS)

SPECIFICATIONS

Reference Information

Packaging: Bag/carton Mates With: SMA Female Designed In: Millimeters RoHS: Yes

Electrical

Frequency (MHz):

Cellular 5G: 600 to 960 MHz; 1,400 to 1,550 MHz;

1,710 MHz to 5 GHz

WiFi: 2.4GHz; 5GHz; 6GHz

GNSS: 1561 to 1602MHz

RF Power (Watt): 2.0

Return Loss (dB):

See details in product specifications

Average Total Radiation Efficiency:

See details in product specifications

Peak Gain (dBi):

See details in product specifications

Impedance (Ohms): 50

Mechanical

Refer to product specifications

Physical

Size (mm): 160.00 by 115.00 by 22.50mm Material: Refer to sales drawings

Operating Temperatures: -40 to +85°C



Sunshade 5-in-1 Antenna (5G MIMO*2/Wi-Fi MIMO*2/GNSS) >

Low-profile Sunshade 5-in-1 antennas featuring LTE/5G full-band cellular, Wi-Fi and GNSS functionalities with IP67 rating and easy mounting are ideal for advanced commercial vehicle and wireless applications.



Sunshade 5-in-1 Antennas (5G MIMO*2/Wi-Fi MIMO*2/GNSS)

top or roof cabinet

FEATURES AND ADVANTAGES





Sunshade 5-in-1 Antenna (5G MIMO*2/Wi-Fi MIMO*2/GNSS) >

APPLICATIONS

Commercial Vehicles

Networking Smart vehicles Telematics box Specialized vehicles

Wireless Infrastructure

IoT and IT infrastructure Advanced industry IoT

Telecommunications/Networking

Infrastructure/networking



Auto Guided Vehicles



Telematics Unit in Automotive



Commercial Vehicles



Smart Infrastructure

SPECIFICATIONS

Reference Information

Packaging: Bag/Carton

Mates with: SMA straight cable plugs (female)

Designed in: Millimeters

RoHS: Yes

Physical

Size: 95 by 95 by 38mm Material: Refer to sales drawings Operating Temperatures: -40 to +85°C

Mechanical

Refer to product specifications

Electrical

Frequency (MHz)

Cellular 5G: 698 to 960 MHz; 1,710 MHz to 5GHz Wi-Fi: 2.4 GHz; 5 GHz; 6 GHz GNSS: 1,561 to 1,602 MHz

RF Power: 2.0W

Return Loss (dB): See details in the

Product Specifications

Average Total Radiation Efficiency: See details in

the Product Specifications
Peak Gain: See details in the
Product Specifications



5G and LTE Antenna Lite >

Molex off-the-shelf (OTS) 5G and LTE Antenna Lite, designed for 2G/3G/4G/5G systems and devices, offers superior coverage and reliability with high efficiency and peak gain, making it ideal for a variety of wireless and networking applications.



5G and LTE Antenna Lite

FEATURES AND ADVANTAGES

Hinge joint allows 90° rotation on vertical plane and SMA connector allows 360° rotation on horizontal plane

Provides excellent directional coverage



5G and LTE Antenna Lite

High gain and efficiency for all major cellular bands

Provides strong and stable wireless connection



LTE/5G Antennas







SMA-Male

Antenna connectors in straight and folded modes with SMA-Male and RP-SMA-Male mounting options

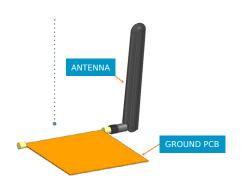
Offer design flexibility



150.40 by 19.90mm (straight mode)

Multi-protocol solution that supports GSM, CDMA, UMTS, LTE, 5G NR and other cellular bands

Makes it suitable for diverse applications





5G and LTE Antenna Lite >

APPLICATIONS

Connected Home

Security and surveillance Home automation Streaming devices Smart appliances Energy and utilities

IoT

Wireless solutions

Telecommunications/Networking

Infrastructure/networking

Commercial Vehicles

Networking



IoT





Networking

Cellular Communication Module

SPECIFICATIONS

Reference Information

Packaging: PET bag

 ${\it Mates with: SMA jack receptacle}$

Designed in: Millimeters

RoHS: Yes

Physical

Size: 150.40 by 19.90mm (straight mode) 129.70 by 19.90mm (folded mode)

Material: Refer to sales drawings

Material, Refer to Sales drawings

Operating Temperatures: -40 to +85°C

Mechanical

Refer to product specifications

Electrical

Frequency: 698 to 960 MHz

RF Power: 2.0W

Return Loss: <-5 dB

Average Total Radiation Efficiency: >55%

Peak Gain: 1 dBi

Impedance: 50 Ohms

Frequency: 1.71 to 2.69 GHz

RF Power: 2.0W

Return Loss: <-5 dB

Average Total Radiation Efficiency: >70%

Peak Gain: 4.5 dBi

Impedance: 50 Ohms

Electrical

Frequency: 3.3 to 4.2 GHz

RF Power: 2.0W

Return Loss: <-5 dB

Average Total Radiation Efficiency: >60%

Peak Gain: 3.6 dBi

Impedance: 50 Ohms

Frequency: 4.2 to 5 GHz

RF Power: 2.0W

Return Loss: <-10 dB

Average Total Radiation Efficiency: >65%

Peak Gain: 3.5 dBi Impedance: 50 Ohms

Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владикавказ (8672)28-90-48 Владикавказ (8672)28-90-48 Владикавказ (8672)28-90-48 Волоград (844)278-03-48 Волоград (8472)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Когломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Курган (3522)50-90-47 Липецк (4742)52-20-81 Россия +7(495)268-04-70

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Ноябрьск (3496)41-32-12 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Пермь (342)205-81-47 Казакстан +7(7172)727-132 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Саранск (8342)22-96-24 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Сыктывкар (8212)25-95-17 Тамбов (4752)50-40-97 Тверь (4822)63-31-35 Киргизии +996(312)96-26-47 Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тула (4872)33-79-87 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Улан-Удэ (3012)59-97-51 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93