3-in-1 (4G/Wi-Fi/GPS) External Antennas

Features and Advantages

molex

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

Self-adhesive tape



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3m cables

Tape liner

Extend connectivity between the antenna and the application's 3 radio devices for their respective 4G, Wi-Fi and GPS operations

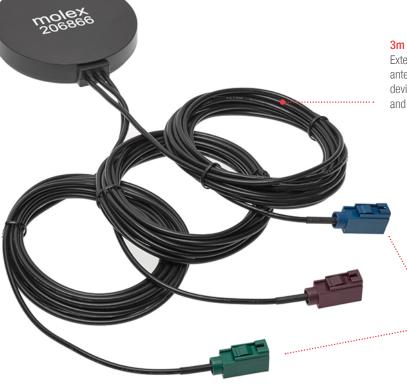
Cable Connectors

Allow customization with other connectors including SMA, MMCX and more



FAKRA Connectors (Blue: GPS, FAKRA Model C; Purple: 4G, FAKRA Model D; Green: Wi-Fi, FAKRA Model E)

Compact, waterproof 3-in-1 External Antenna (Diameter: 77mm; Height: 15mm) Enables space-efficiency and easy integration into applications requiring IP66 protection Flip-side of antenna housing



Applications

Automotive and Commercial Vehicles

- Remote monitoring
- Navigation devices
- Fleet management systems that
- require high-speed data requirements



Automotive



Fleet Management Systems for Commercial Vehicles

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Specifications

REFERENCE INFORMATION

Packaging: Box Use With: FAKRA connectors (Model C/D/E) Designed In: Millimeters RoHS: Yes Halogen Free: Yes Glow Wire Compliant: No

ELECTRICAL (GPS ANTENNA)

Frequency Range: 1,575.42±1.023 MHz Average Total Efficiency: 26.2% Peak Gain: 3 dBi based on 70 by 70mm ground plane Polarization: RHCP

ELECTRICAL (GPS LNA)

Frequency Range: 1,575.42±1.023 MHz DC Voltage: 3 to 5V DC Current: 11±3mA (at 3.3V) Noise Figure: ≤1.5 dB Gain: 28±3 dB

ELECTRICAL (4G ANTENNA)

Frequency Range: 824 to 960 MHz, 1.71 to 2.60 GHz Average Total Efficiency: 21.6% (824 to 960 MHz) 27.2% (1.71 to 2.60 GHz) Peak Gain: -0.5 dBi type (824 to 960 MHz) 0 dBi type (1.71 to 2.60 GHz) Polarization: Linear

ELECTRICAL (WI-FI AND BLUETOOTH ANTENNA)

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
<u>206866</u>	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	3m	FAKRA (Model C/D/E)

Custom Product	Cable Connectors
Contact Molex	SMA, MMCX and others

www.molex.com/link/standard_antennas.html

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