2.4, 5 GHz Flexible and PCB Antennas

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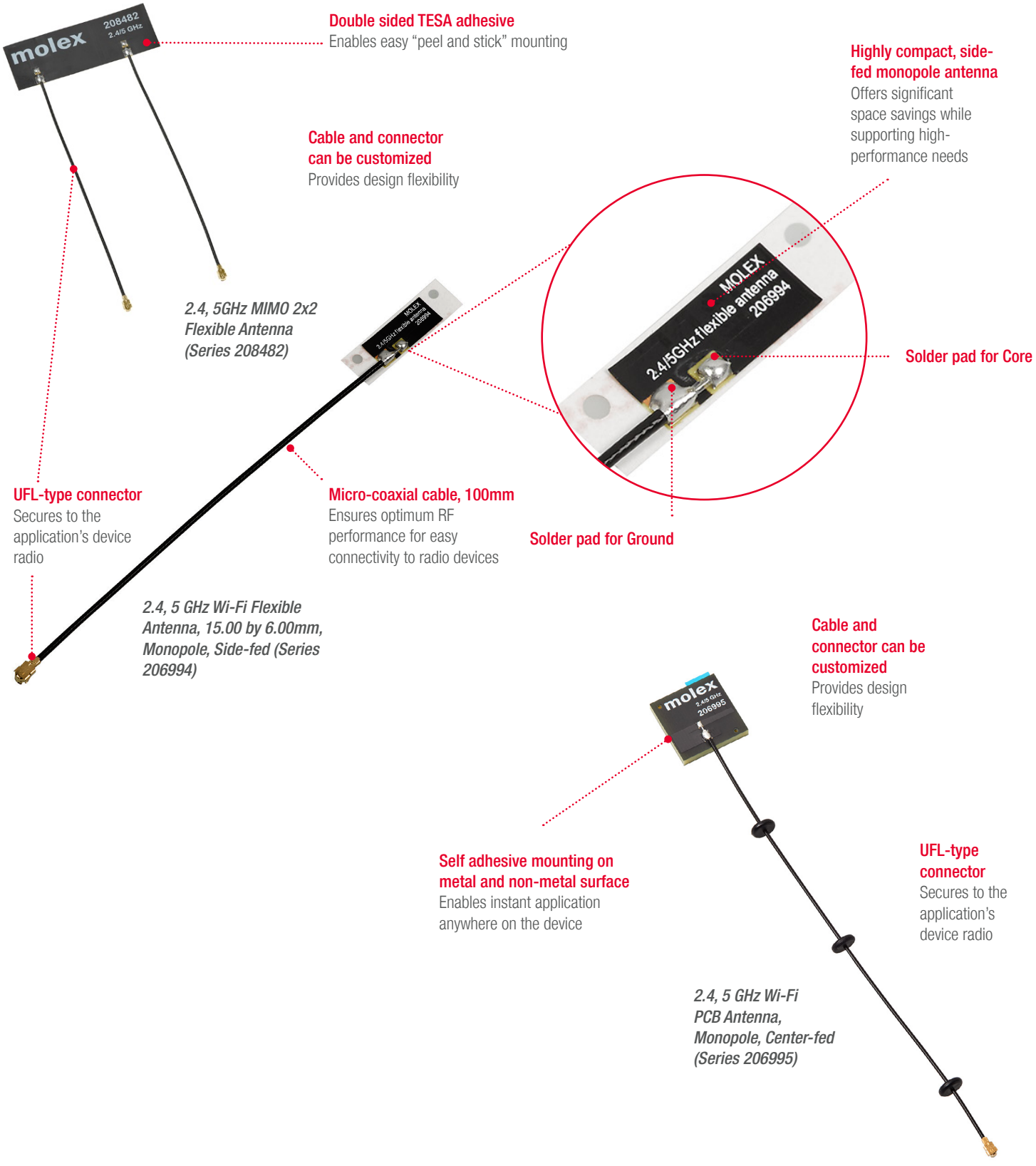
Designed for fast and easy integration into wireless devices at minimal implementation cost, side and center-fed cable Flexible Antenna enable high-performance RF transmission for the most demanding Wi-Fi applications

Features and Advantages



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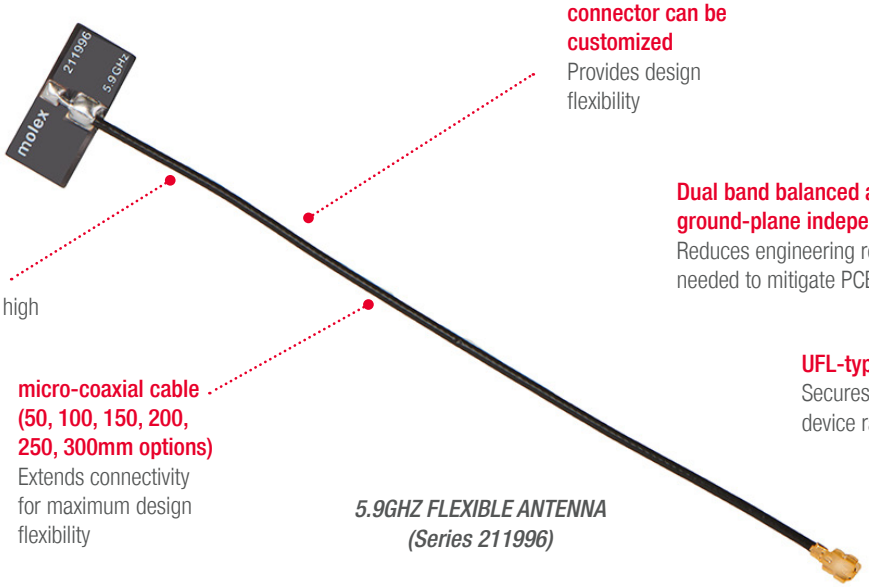
Features and Advantages

Easy peel and stick
Enables instant application on non-metal surface

Cable and connector can be customized
Provides design flexibility



Dual band balanced antenna with ground-plane independent design
Reduces engineering resources and costs needed to mitigate PCB ground-induced radiation

Highly compact
Offers significant space savings while supporting high performance needs

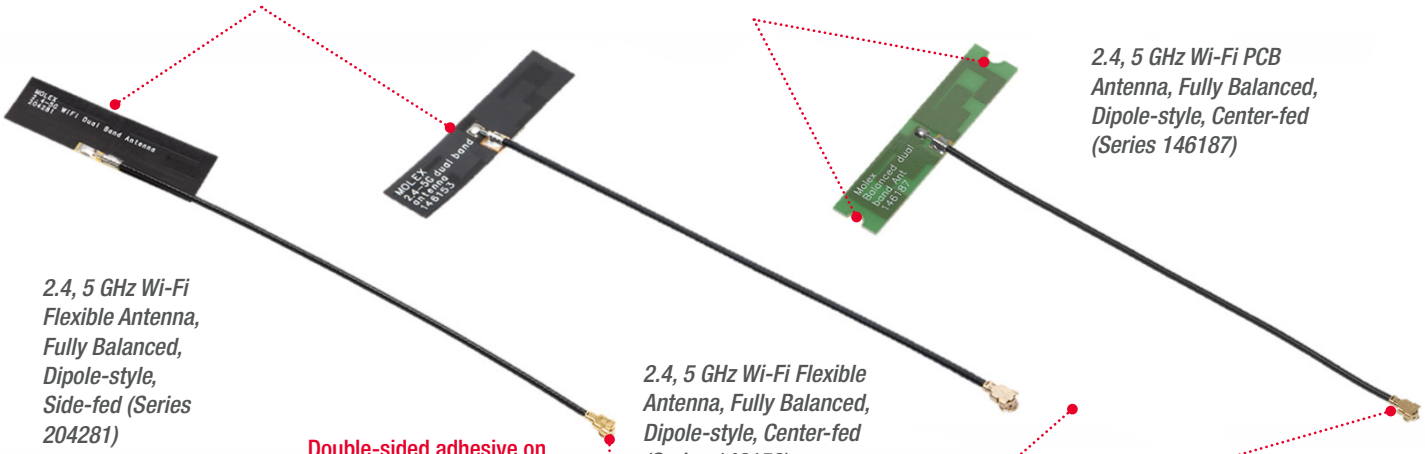
UFL-type connector
Secures to the application's device radio

micro-coaxial cable (50, 100, 150, 200, 250, 300mm options)
Extends connectivity for maximum design flexibility

5.9GHZ FLEXIBLE ANTENNA (Series 211996)

Topside of the poly-flexible antenna
Makes for easy peel-and-stick mounting anywhere within the device chassis

Rigid PCB antenna with two holes on both sides for screw-nut mounting
Offers more robust securing of antenna to device chassis in rugged applications



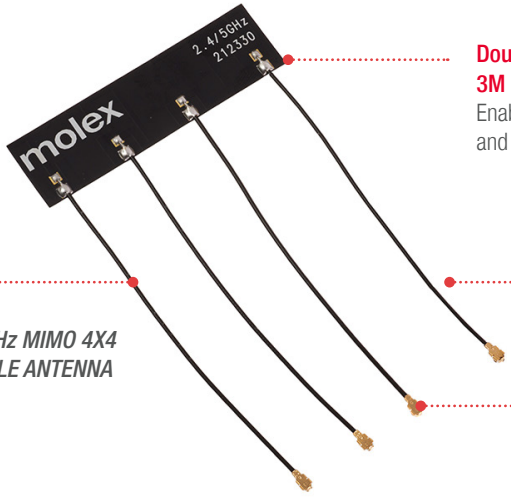
2.4, 5 GHz Wi-Fi PCB Antenna, Fully Balanced, Dipole-style, Center-fed (Series 146187)

2.4, 5 GHz Wi-Fi Flexible Antenna, Fully Balanced, Dipole-style, Side-fed (Series 204281)

2.4, 5 GHz Wi-Fi Flexible Antenna, Fully Balanced, Dipole-style, Center-fed (Series 146153)

Double-sided adhesive on the antenna reverse
Enables instant application anywhere on the inner wall of the device chassis by just removing its tape liner

micro-coaxial cable (50, 100, 150, 200, 250, 300mm options)
Extends connectivity for maximum design flexibility



Double-sided 3M adhesive
Enables easy "peel and stick" mounting

Cable and connector can be customized
Provides design flexibility

4x4 MIMO design
Delivers superior connectivity

2.4/5GHz MIMO 4X4 FLEXIBLE ANTENNA

UFL-type connector
Secures to the application's device radio

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Applications

Consumer
- Connected Home
- Smart Home

Automotive
- Connected Vehicle
- Comfort and Infotainment

Industrial
- Smart Cities

Connected Home

Smart Cities

Specifications

REFERENCE INFORMATION
Reference Information
Packaging: PET Film
Mates with: Surface-mount, micro-coaxial jack receptacle (Series: 73412)
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Capable: No

ELECTRICAL
RF Power (Watt): 2
Return Loss: < -10 dB
Refer to Product Specifications (212330)
Average Total Radiation Efficiency (%):
Refer to Product Specifications
Peak Gain (dBi):Refer to Product Specifications
Input Impedance (ohms): 50

MECHANICAL
Refer to Product Specifications

PHYSICAL
Material: Flexi (146153, 204281, 208482, 206994, 212330 and 211996); FR4 PCB (146187 and 206995)
Plating:
Refer to Sales Drawings
Operating Temperature: -30 to +85°C
-40 to +85°C (206995, 208482, 211996, 212330)

2.4, 5 GHz Flexible and PCB Antennas

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Ordering Information

Series No.	Substrate	Cable Feed	Dimensions (mm)	Cable Lengths (mm)
206994	Flexi material	Side	15.00 by 6.00	100
206995	PCB (FR4)	Center	20.50 by 20.50 by 3.00	150
208482	Flexi material	Center	55.20 by 19.20 by 0.16	100, 150, 200
204281	Flexi material	Side	35.00 by 11.00 by 0.10	50
				100
				150
				200
				250
				300
146153	Flexi material	Center	34.90 by 9.00 by 0.10	50
				100
				150
				200
				250
				300
146187	PCB (FR4)	Center	40.95 by 9.00 by 0.70	50
				100
				150
				200
				250
				300
211996	Flexi material	Center	16.40 by 7.60 by 0.16	50
				100
				150
				200
				250
				300
212330	Flexi material	Center	70.00 by 20.00	100, 150, 200

www.molex.com/link/antenna_iot.html

Order No. 987651-6901 Rev. 6 APS/0k/GF/2019.09