

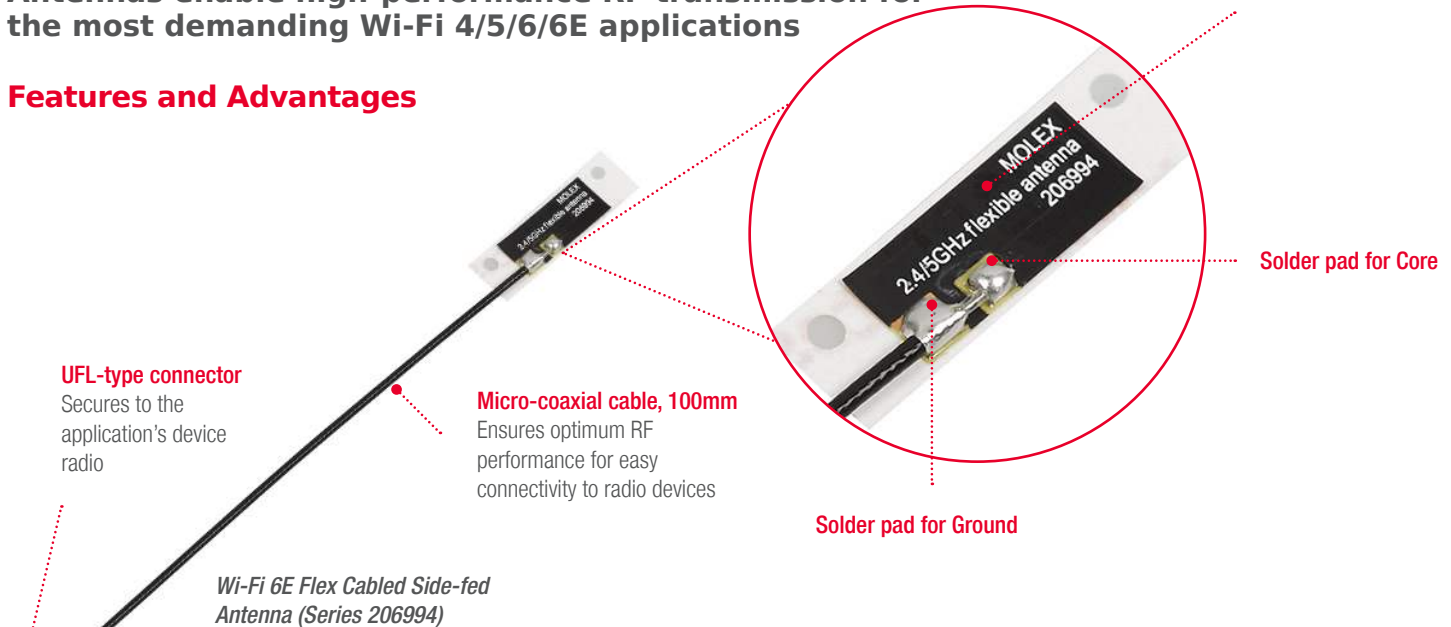
Wi-Fi Flexible and PCB Antennas



Designed for fast and easy integration into wireless devices at minimal implementation cost, on-metal, MIMO, side and center-fed cabled Flexible and PCB Antennas enable high-performance RF transmission for the most demanding Wi-Fi 4/5/6/6E applications

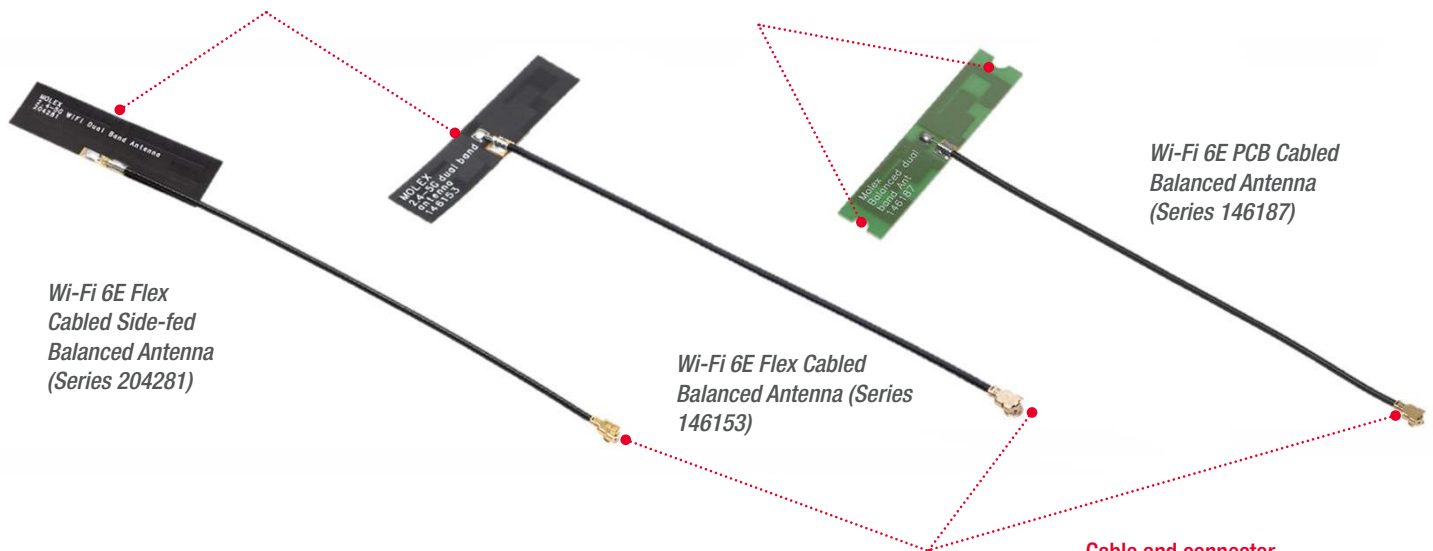
Highly compact, side-fed monopole antenna
Offers significant space savings while supporting high-performance needs

Features and Advantages



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



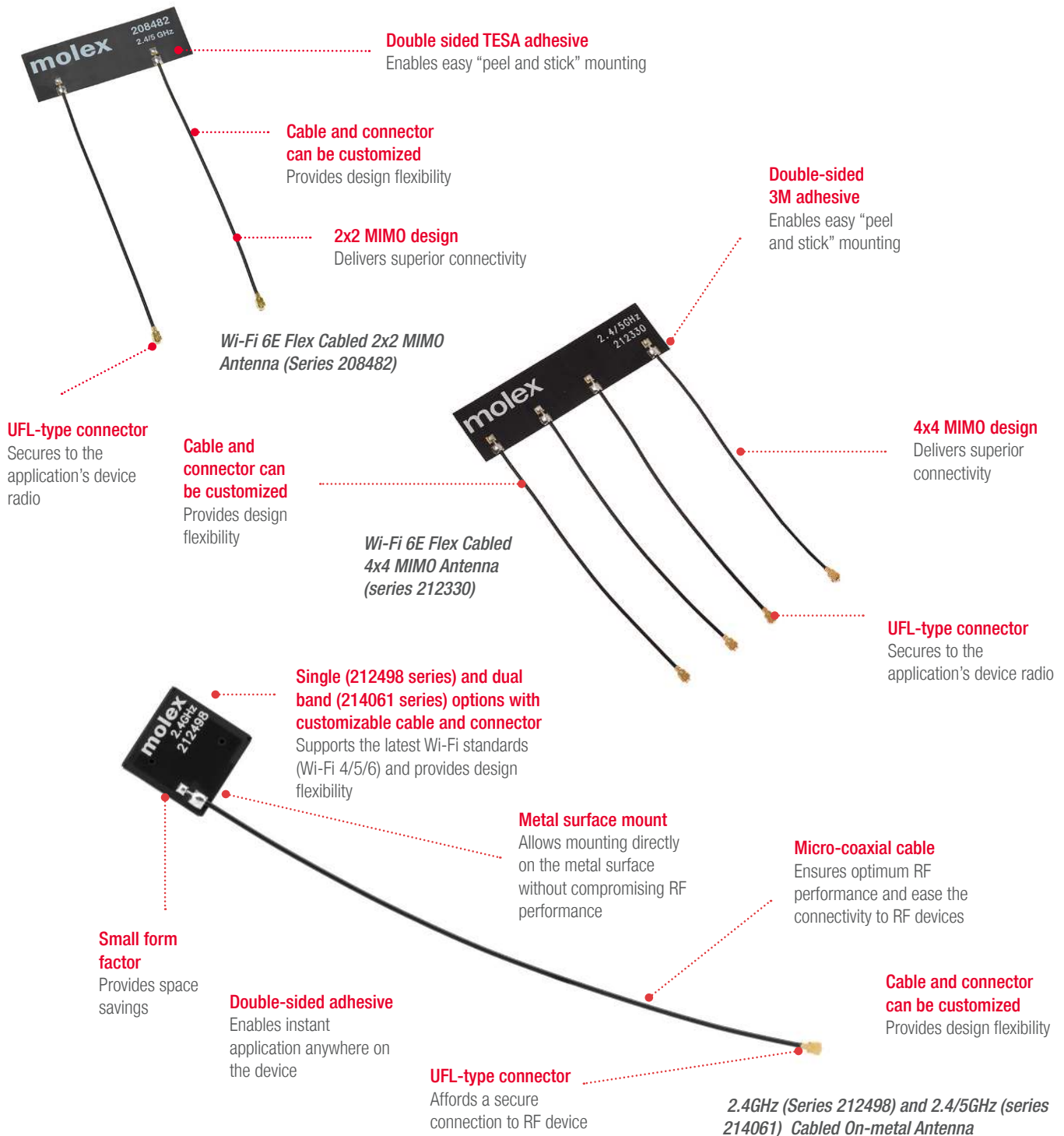
micro-coaxial cable (50, 100, 150, 200, 250, 300mm options)
Extends connectivity for maximum design flexibility

Cable and connector can be customized
Provides design flexibility

Wi-Fi Flexible and PCB Antennas

molex

Features and Advantages



Wi-Fi Flexible and PCB Antennas



Applications

Consumer

- Connected Home
- Smart Home
- White goods
- Smart lighting

Automotive

- Connected Vehicle
- Comfort and Infotainment

Industrial

- Smart Cities

Medical

- Connected diagnostics
- Connected health



Connected Home



Smart Cities



Infotainment

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:
 Refer to Product Specifications
 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 (206994, 204281, 146187, 208482, 212330, 146186)
 Plastic (212498, 214061);
 FR4 PCB (146153, 146220)
 Plating:
 Refer to Sales Drawings
 Operating Temperature: -30 to +85°C
 -40 to +85°C (206995, 208482, 212330)

Ordering Information

Series No.	Standard	Substrate	Cable Feed	Dimensions (mm)	Cable Lengths (mm)
212498	Legacy Wi-Fi 1/2/3	Plastic	Side	20.20 by 20.20	100, 150, 200*
214061	Wi-Fi 4/5/6	Plastic	Side	20.20 by 20.20	100, 150, 200*
206994	Wi-Fi 4/5/6/6E	Flexi material	Side	15.00 by 6.00	100**
208482	Wi-Fi 4/5/6/6E	Flexi material	Center	55.20 by 19.20 by 0.16	100, 150, 200*
204281	Wi-Fi 4/5/6/6E	Flexi material	Side	35.00 by 11.00 by 0.10	50, 100, 150, 200, 250, 300*
146153	Wi-Fi 4/5/6/6E	Flexi material	Center	34.90 by 9.00 by 0.10	50, 100, 150, 200, 250, 300*
146187	Wi-Fi 4/5/6/6E	PCB (FR4)	Center	40.95 by 9.00 by 0.70	50, 100, 150, 200, 250, 300*
212330	Wi-Fi 4/5/6/6E	Flexi material	Center	70.00 by 20.00	100, 150, 200*
146186	Wi-Fi 4/5/6/6E + GNSS	Flexi material	Center	53.00 by 18.00	100, 150, 200, 250, 300*
146220	Wi-Fi 4/5/6/6E + GNSS	PCB	Center	53.00 by 16.60	100, 150, 200, 250, 300*

* Cable and connector can be customized

** Connector can be customized

www.molex.com/link/antenna_iot.html

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