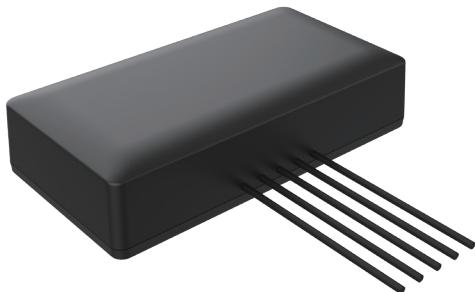


Vehicle Antennas

• JEBSEE •

AN8203

5-in-1 Combination External Antenna



Features

- **Comprehensive Wireless Connectivity**

Featuring 2x2 MIMO technology and supports 5G NR/4G LTE full band, and 5G NR high band, delivering high-speed and stable cellular and wireless network connectivity.

- **Precise Positioning**

Advanced multi-frequency GNSS support (GPS, GLONASS, Galileo, BeiDou) across L1 and L5 frequencies guarantees accurate and reliable location tracking.

- **Flexible Installation**

Ground plane independent design allows for versatile placement options without compromising antenna performance.

Application

- **Vehicle telematics**

Enables reliable 5G/4G/Wi-Fi connectivity for in-vehicle telematics systems, supporting fleet management, vehicle tracking, and other connected car applications.

- **Autonomous Vehicles**

Provides precise GNSS data for navigation, safety systems, and autonomous control in electric and self-driving vehicles.

Item	Model No.	AN8203			
Antennas 1-2		2x2 MIMO 5G NR/4GLTE Full band + V2X			
Frequency Range	MHz	617-960	1427-2690	3300-5000	5150-5925
Peak Gain	dBi	3.0	5.0	5.0	5.0
Efficiency	%	45 typ.	50 typ.	50 typ.	45 typ.
Output VSWR	:1	3.0 max.	2.0 max.	2.0 max.	2.0 max.
Polarization			Linear		
Radiation Pattern			Omni-Directional		
Cable			RTK031, 3000mm *2 (Any Cable Length Available)		
Connector			FAKRA-Female (Code D) *2 (Other Connectors Available)		
Antennas 3-4		2x2 MIMO 5G NR High band + V2X			
Frequency Range	MHz	1427-2690	3300-5000	5150-5925	5150-5925
Peak Gain	dBi	5.0	5.0	5.0	5.0
Efficiency	%	50 typ.	50 typ.	50 typ.	50 typ.
Output VSWR	:1	2.0 max.	2.0 max.	2.0 max.	2.0 max.
Polarization			Linear		
Radiation Pattern			Omni-Directional		
Cable			RTK031, 3000mm *2 (Any Cable Length Available)		
Connector			FAKRA-Female (Code H) *2 (Other Connectors Available)		
Antenna 5		GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5			
Frequency Range	MHz	1164 – 1188	1559 – 1606		
Gain at Zenith	dBic	2.96	4.01		
Axial Ratio	dB	0.27 – 1.50	1.1.0 – 1.80		
Polarization		RHCP	RHCP		
Radiation Pattern		Hemispherical	Hemispherical		
LNA Gain	dB	28.0 ± 3.0	28.0 ± 3.0		
Noise Figure	dB	3.0 max.	3.0 max.		
Output VSWR	:1	2.0 max.	2.0 max.		
Out-of-Band Rejection	dB	65 typ.			
Saw Filter Type		Pre-Filter			
Current Consumption	mA	20 max. @3.0 - 5.5V			
Cable		RG-174/U, 3000mm (Any Cable Length Available)			
Connector		FAKRA-Female (Code C) (Other Connectors Available)			
Mounting		Mechanical			
IP Rating		Adhesive			
Dimensions		IP67			
		150(W) x 80(L) x 35(H) mm			