

Vehicle Antennas

• JEBSEE •

AN8203

5-in-1 Combination External Antenna

2x2 MIMO 5G NR/4GLTE Full band + V2X
2x2 MIMO 5G NR High band + V2X
GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5

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.

Model No.		AN8203			
Item					
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
Peak Gain	dBi	5.0	5.0		5.0
Efficiency	%	50 typ.	50 typ.		50 typ.
Output VSWR	:1	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	dBi	2.96		4.01	
Axial Ratio	dB	0.27 – 1.50		1.10 – 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)			
		Mechanical			
		Adhesive			
		IP67			
		150(W) x 80(L) x 35(H) mm			