

Vehicle Antennas

• JEBSEE •

AN8210

2x2 MIMO 5G NR/4GLTE Full band + V2X
2x2 MIMO 2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X
GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5

5-in-1 Combination External Antenna



Features

- **Advanced Wireless Technology**

With 2x2 MIMO 5G NR/4G LTE full band and 2x2 MIMO 2.4-5.0-6.0GHz Wi-Fi 7, this product delivers a high-speed and stable experience for both cellular and wireless networks.

- **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.	AN8210			
Antenna 1, Antenna 2		2x2 MIMO 5G NR/4GLTE Full band + V2X			
Frequency Range	MHz	617-960	1427-2690	3300-5000	5150-5925
Peak Gain	dBi	1.4	3.0	3.3	2.0
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 Omni-Directional			
Radiation Pattern		RTK03I, 3000mm *2 (Any Cable Length Available)			
Cable		FAKRA-Female (Code D) *2 (Other Connectors Available)			
Connector		2x2 MIMO 2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X			
Antenna 3, Antenna 4		2x2 MIMO 2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X			
Frequency Range	MHz	2410-2490	4920-5925	5925-7125	3.5
Peak Gain	dBi	3.2	3.6	3.5	45 typ.
Efficiency	%	50 typ.	50 typ.	50 typ.	2.0 max.
Output VSWR	:1	2.0 max.	2.0 max.	2.0 max.	2.0 max.
Polarization		Linear Omni-Directional			
Radiation Pattern		RTK03I, 3000mm (Any Cable Length Available)			
Cable		FAKRA-Female (Code H) (Other Connectors Available)			
Connector		2x2 MIMO 2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X			
Antenna 5		GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5			
Frequency Range	MHz	1164 – 1188	1559 – 1606	4.01	
Gain at Zenith	dBi	2.96	1.1.0 – 1.80	R-HCP	
Axial Ratio	dB	0.27 – 1.50	Hemispherical	Hemispherical	
Polarization		RHCP	28.0 ± 3.0	28.0 ± 3.0	
Radiation Pattern		Hemispherical	3.0 max.	3.0 max.	
LNA Gain	dB	28.0 ± 3.0	2.0 max.	2.0 max.	
Noise Figure	dB	3.0 max.	65 typ.	65 typ.	
Output VSWR	:1	2.0 max.	Pre-Filter	Pre-Filter	
Out-of-Band Rejection	dB		20 max. @3.0 - 5.5V	20 max. @3.0 - 5.5V	
Saw Filter Type			RG-174/U, 3000mm (Any Cable Length Available)	RG-174/U, 3000mm (Any Cable Length Available)	
Current Consumption	mA		FAKRA-Female (Code C) (Other Connectors Available)	FAKRA-Female (Code C) (Other Connectors Available)	
Mounting		Mechanical			
IP Rating		Adhesive			
Dimensions		IP67			
		185(W) x 72(L) x 18.5(H) mm			