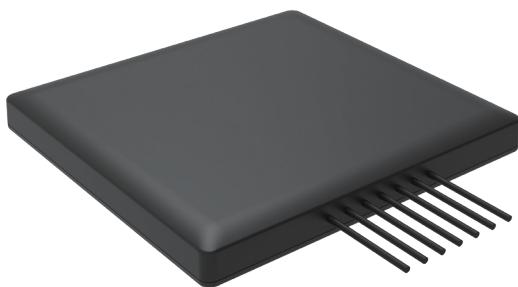


# Vehicle Antennas

• JEBSEE •

## AN8212

### 7-in-1 Combination External Antenna



#### Features

- **Advanced Wireless Technology**

With 4x4 MIMO 5G NR/4G LTE full band and 2x2 MIMO 2.4-5.0-6.0GHz Wi-Fi 7/BT/ISM + V2X GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5

- **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.	AN8212			
<b>Antennas 1-4</b>		<b>4x4 MIMO 5G NR/4GLTE Full band + V2X</b>			
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		
Radiation Pattern			Omni-Directional		
Cable			RTK03I, 3000mm *4 (Any Cable Length Available)		
Connector			FAKRA-Female (Code D) *4 (Other Connectors Available)		
<b>Antennas 5-6</b>		<b>2x2 MIMO 2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X</b>			
Frequency Range	MHz	2410-2490	4920-5925	5925-7125	
Peak Gain	dBi	2.8	3.5	3.5	
Efficiency	%	45 typ.	50 typ.	45 typ.	
Output VSWR	:1	2.0 max.	2.0 max.	2.0 max.	
Polarization			Linear		
Radiation Pattern			Omni-Directional		
Cable			RTK03I, 3000mm (Any Cable Length Available)		
Connector			FAKRA-Female (Code H) (Other Connectors Available)		
<b>Antenna 7</b>		<b>GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5</b>			
Frequency Range	MHz	1164 – 1188		1559 – 1606	
Gain at Zenith	dBi	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		<b>Mechanical</b>			
IP Rating			Adhesive		
Dimensions			IP67		
			170(W) x 160(L) x 18.5(H) mm		