

Vehicle Antennas

• JEBSEE •

AN8280

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

4-in-1 Combination External Antenna



Features

- Rugged and Discreet**
Its low-profile design with adhesive mounting and IP67 waterproof rating ensures reliable operation in diverse environments.
- High-performance 5G/4G connectivity**
Equipped with dual MIMO antennas and supporting global 5G bands for superior cellular connectivity.
- Multi-Band Wi-Fi**
The Wi-Fi antenna supports 2.4/5.0/6.0 GHz ISM bands, offering flexibility for various wireless applications.
- 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 connectivity for in-vehicle telematics systems, supporting fleet management, vehicle tracking, and other connected car applications.
- Emergency services**
Provides essential communication support for first responders and emergency services, enabling critical communication during crisis situations.

Item	Model No.	AN8280		
Antenna 1, Antenna 2		2x2 MIMO 5GNR/4G LTE Full band + V2X		
Frequency Range	MHz	617-960	1427-2690	3300-5000
Peak Gain	dBi	3.0	2.8	1.0
Efficiency	%	35.1	27.2	23.5
Output VSWR	:1	2.0	2.0	2.0
Polarization			Linear	
Radiation Pattern			Omni-Directional	
Cable			RTK031, 3000mm *2 (Any Cable Length Available)	
Connector			FAKRA-Female (Code D) *2 (Other Connectors Available)	
Antenna 3		2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X		
Frequency Range	MHz	2410-2490	4920-5925	5925-7125
Peak Gain	dBi	0.1	1.8	1.8
Efficiency	%	24.9	28.1	25.9
Output VSWR	:1	2.0	2.0	2.0
Polarization			Linear	
Radiation Pattern			Omni-Directional	
Cable			RTK031, 3000mm (Any Cable Length Available)	
Connector			FAKRA-Female (Code H) (Other Connectors Available)	
Antenna 4		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	
			74(W) x 80(L) x 25(H) mm	