

# Vehicle Antennas

• JEBSEE •

## AN8280

### 4-in-1 Combination External Antenna

**2x2 MIMO 5G NR/4G LTE Full band + V2X**  
**2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X**  
**GPS/GLONASS/QZSS/Galileo/IRNSS/L1 L5**

#### 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.

Model No.		AN8280			
Item					
Antenna 1, Antenna 2		2x2 MIMO 5G NR/4G LTE Full band + V2X			
Frequency Range	MHz	617-960	1427-2690	3300-5000	5150-5925
Peak Gain	dBi	3.0	2.8	1.0	-0.5
Efficiency	%	35.1	27.2	23.5	22.4
Output VSWR	:1	2.0	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/L1 L5			
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				
Saw Filter Type			65 typ.		
Current Consumption	mA		Pre-Filter		
Cable			20 max. @3.0 - 5.5V		
Connector			RG-174/U, 3000mm (Any Cable Length Available)		
			FAKRA-Female (Code C) (Other Connectors Available)		
		Mechanical			
Mounting		Adhesive			
IP Rating		IP67			
Dimensions		74(W) x 80(L) x 25(H) mm			