

Vehicle Antennas

• JEBSEE •

AN8230

9-in-1 Combination External Antenna

4x4 MIMO 5G NR/4GLTE Full band + V2X
4x4 MIMO 2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X
GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5



Features

- Advanced Multi-Element Design**

Incorporates up to nine elements, supporting 5G/4G LTE MIMO, Wi-Fi 7, and an optional GNSS antenna with a 28dB gain LNA for enhanced connectivity.

- Ground Plane Independence**

Designed to operate without a metallic ground plane, ensuring optimal performance on any surface, including non-metallic ones.

- Rugged and Low-Profile**

Durable low-profile radome resists damage from environmental factors, ideal for high-speed vehicles and demanding conditions.

Application

- Fire and Rescue Services**

Supports reliable 5G/4G LTE and GNSS connectivity for mission-critical communication and navigation during emergency response.

- Public Transportation**

Enhances vehicle connectivity for public buses, ensuring stable internet access and GPS tracking for improved fleet management.

Model No.		AN8230			
Item					
Antennas 1-4		4x4 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			
Radiation Pattern		Omni-Directional			
Cable		RTK031, 3000mm *4 (Any Cable Length Available)			
Connector		FAKRA-Female (Code D) *4 (Other Connectors Available)			
Antennas 5-8		4x4 MIMO 2.4-5.0-6.0GHz/Wi-Fi 7/BT/ISM + V2X			
Frequency Range	MHz	2410-2490	4920-5925		5925-7125
Peak Gain	dBi	3.2	3.6		3.5
Efficiency	%	50 typ.	50 typ.		45 typ.
Output VSWR	:1	2.0 max.	2.0 max.		2.0 max.
Polarization		Linear			
Radiation Pattern		Omni-Directional			
Cable		RTK031, 3000mm*4 (Any Cable Length Available)			
Connector		FAKRA-Female (Code H)*4 (Other Connectors Available)			
Antenna 9		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			1.1.0 – 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)		
		Mechanical			
Mounting		Screw			
IP Rating		IP67			
Dimensions		160(Ø) x 67(H) mm			