

Vehicle Antennas

• JEBSEE •

AN823 I

9-in-1 Combination External Antenna

4×4 MIMO 5G NR/4GLTE Full band
4×4 MIMO V2X
GPS/GLONASS/QZSS/Galileo/IRNSS/L1 L5

Features

- **5G, V2X, and GNSS Integration**
Combines 5G, V2X, and GNSS tracking to provide precise communication for intelligent transportation systems (ITS), with MIMO support for faster data speeds and enhanced connectivity.
- **Compact and High-Performance Design**
Equipped with nine broadband antennas, this compact antenna is optimized for superior signal isolation and high-level performance.
- **Rugged and Low-Profile**
The durable low-profile radome resists damage from environmental challenges, making it ideal for high-speed vehicles and harsh conditions.

Application

- **Vehicle Fleets and Asset Tracking**
Enhances fleet management with reliable 5G/V2X connectivity and precise GNSS tracking for improved asset monitoring.
- **Autonomous Vehicles**
Supports seamless communication and precise navigation, offering robust data for autonomous control systems in self-driving vehicles.

Model No.		AN823 I			
Item					
Antennas 1-4		4x4 MIMO 5G NR/4GLTE Full band			
Frequency Range	MHz	617-960	1427-2690	3300-5000	5150-5920
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 V2X			
Frequency Range	MHz	5850-5950			
Peak Gain	dBi	5.0			
Efficiency	%	50 typ.			
Output VSWR	:1	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			