

Vehicle Antennas

• JEBSEE •

AN823 I

9-in-1 Combination External Antenna



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.

Item	Model No.	AN823 I		
Antennas 1-4		4x4 MIMO 5G NR/4GLTE Full band		
Frequency Range	MHz	617-960	1427-2690	3300-5000
Peak Gain	dBi	1.4	3.0	3.3
Efficiency	%	45 typ.	50 typ.	50 typ.
Output VSWR	:1	3.0 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/GLOASS/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		