

Vehicle Antennas

• JEBSEE •

AN829 I

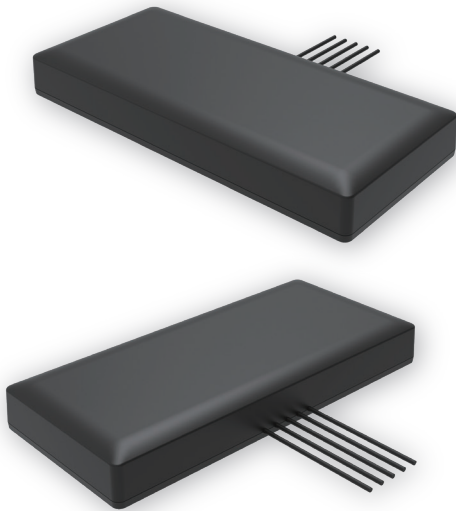
6-in-1 Combination External Antenna

AM/FM/DAB

2x2 MIMO 5G NR/4GLTE Full band + V2X

GPS/GLONASS/QZSS/Galileo/IRNSS/L1L5

SDARS/SiriusXM



Features

- Exterior or Hidden Spoiler Design**
Designed for installation on the vehicle exterior or hidden within the spoiler, offering a more streamlined and aesthetic appearance.
- 617-5925 MHz Sub 6GHz Band Support**
Supports Sub 6GHz frequency bands from 617 to 5925 MHz, ensuring fast and reliable connectivity for modern communication needs.
- Low-Profile AM/FM/DAB and SDARS Antenna**
A low-profile active AM/FM/DAB antenna with SDARS support, compatible with SIRIUS / XM satellite systems, providing enhanced signal reception and audio quality.
- L1/L5 Multi-Band and Multi-Constellation GNSS**
Supports L1/L5 multi-band and multi-constellation GNSS for precise global positioning services, ensuring reliable navigation accuracy.

Application

- Vehicle telematics**
Enables reliable 5G/4G/V2X/GNSS connectivity for in-vehicle telematics systems, supporting fleet management, vehicle tracking, and other connected car applications.
- Enhanced Signal Reception**
Receives both AM/FM/DAB and SiriusXM radio frequencies with a built-in amplifier for improved clarity and audio quality.

Model No.		AN829 I			
Item					
Antennas 1-2		2x2 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 *2 (Any Cable Length Available)			
Connector		FAKRA-Female (Code D) *2 (Other Connectors Available)			
Antennas 3-4		AM/FM		DAB	
Frequency Range	MHz	0.535-1.705, 76-108		174-240	
LNA Gain	dB	0, 12		22	
Output VSWR	:1	2.0 max.		2.0 max.	
Polarization		Linear		Linear	
Radiation Pattern		Omni-Directional		Omni-Directional	
Current Consumption	mA	95 typ. @12-14V			
Cable		RG-174/U, 3000mm		RG-174/U, 3000mm	
Connector		FAKRA-Female (Code B)		FAKRA-Female (Code F)	
Antenna 5-6		GPS/GLONASS/Galileo/L1L5		SiriusXM	
Frequency Range	MHz	1164-1188, 1559-1606		2320 - 2345	
Gain at Zenith	dBic	2.96, 4.01		9.0	
Axial Ratio	dB	1.50, 1.80		3.0	
Polarization		RHCP		LHCP	
Radiation Pattern		Hemispherical		Hemispherical	
LNA Gain	dB	28.0 typ., 28.0 typ.		28.0 typ.	
Noise Figure	dB	3.0 max., 3.0 max.		1.0 max.	
Output VSWR	:1	2.0 max., 2.0 max.		2.0 max.	
Saw Filter Type		Pre-Filter		Pre-Filter	
Current Consumption	mA	40 max. @3.0 - 5.5V		40 max. @3.0 - 5.5V	
Cable		RG-174/U, 3000mm		RG-174/U, 3000mm	
Connector		FAKRA-Female (Code C)		FAKRA-Female (Code K)	
		Mechanical			
Mounting		Adhesive			
IP Rating		IP67			
Dimensions		108(W) x 240(L) x 30(H) mm			