

AllDisc-S MIMO Wi-Fi 6E, 3-in-1 Antenna

Combination Antennas – Cellular+Wi-Fi

710633



Description

Low-profile, whipless combination antenna with a compact and durable design that delivers optimal performance and support of multi-carrier voice and data networks.

Technologies

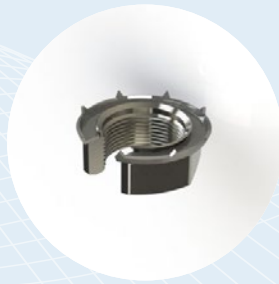
- 2G / 3G / 4G / 5G
- Wi-Fi 6E

Features

- 3-in-1 combination antenna
- 2x2 MIMO for Wi-Fi 6E 2/5/6GHz
- Easy to install
- IP6K9K class
- Cable approved acc ECE-R118
- IATF 16949



710452 – AllDisc bracket



710598 – Slitted nut



710206 – Extension nut to be used on AllDisc with long screw enabling installation thickness 25-50mm

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AllDisc-S by Smartereq, a PCTEL company, is a 3-in-1 antenna including cellular 2/3/4/5G and 2x2 MIMO Wi-Fi 6E 2/5/6GHz with a low profile and durable design, making it perfect for M2M applications, Internet Onboard, EV-charging and Smart Metering. The superior RF performance enables high connectivity and throughput. The AllDisc-S has been successfully tested for durability according to Volkswagen automotive test standards.

Features

- Radio System: 2/3/4/5G + Wi-Fi 6E
- Cellular Frequencies: 698-960 MHz, 1710-2690 MHz, 3400-3800 MHz
- Wi-Fi Frequencies: 2400-2485/4900-6000 MHz
- 2x2 MIMO for Wi-Fi 2/5/6GHz
- Discreet design with center screw installation
- Verified according to VW test requirements
- IATF 16949

Applications

- Off-Highway Vehicle (OHV)
- ECU/Gateway
- M2M
- Smart Metering
- Smart City
- EV-chargers
- Vending machine
- Parking meter

Certifications



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Standard Configurations

Model	Elements	Cable	Cable Length	Code	Connector	Housing Color	Mount	Accessories
710633	Cellular	RG316, grey	0.20m	D	FAKRA-Male	Black (Optional white or grey)	Hole mount with center screw and adhesive tape	710452 – AllDisc bracket 710598 – Slitted nut 710206 – Extension nut
	Wi-Fi (1)	RG316, grey	0.25m	I	FAKRA-Male			
	Wi-Fi (2)	RG316, grey	0.30m	I	FAKRA-Male			

Electrical Specifications – RF Antenna

Frequency Ranges	VSWR ¹	Peak Gain ²	Efficiency ³	Correlation Factor	Nominal Impedance	Polarization	Radiation Characteristics	Maximum Power ⁴	DC Short
LTE / 5G									
617 - 698 MHz	< 4.5:1	1 dBi	50%	<0.02	50Ω	Linear, vertical	Omnidirectional	10 watts	Yes
698 - 880 MHz	≤ 2:1	4.5 dBi	89%						
880 - 960 MHz	≤ 2.5:1	5 dBi							
1710 - 1880 MHz		5 dBi							
1710 - 2690 MHz	≤ 3:1	4.5 dBi							
1710 - 2170 MHz			89%						
1920 - 2170 MHz		4.5 dBi							
2500 - 2690 MHz		3.5 dBi	88%						
3300 - 3800 MHz	≤ 3:1	7 dBi	82%						
Wi-Fi 6E (1 & 2)									
2400 - 2485 MHz	≤ 2:1	8 dBi	80%	<0.02	50Ω	Linear, vertical	Omnidirectional	10 watts	
4900 - 7200 MHz	≤ 2:1	10 dBi	65%						

¹ VSWR values are measured at the end of 0.5m cable without a ground plane.

² Peak Gain values measured on ground plane (excluding cable)

³ Antenna efficiency measured ?

⁴ Maximum power measured at ambient temperature of 25°C

AIIDisc-S MIMO Wi-Fi 6E, 3-in-1 Antenna

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Mechanical and Environmental Specifications

Physical

Dimensions (D x H)	96 x 55 mm
Weight	~150g
Radome Construction	PC/PBT/Aluminum alloy
Operating / Storage Temperature	-40°C to +85°C
IP Class	IP6K9K

Extension Cables

Part Number	Cable Length	Connector	Gender	Code
LL58 Cable				
710606	2.5m	FAKRA/SMA	Female/Male	Z/
710608	2.5m	FAKRA	Female/Female	D
710609	2.5m	FAKRA	Female/Female	C
710610	2.5m	FAKRA	Female/Female	I
710607	5.0m	FAKRA/SMA	Female/Male	Z/
710611	5.0m	FAKRA	Female/Female	D
710612	5.0m	FAKRA	Female/Female	C
710613	5.0m	FAKRA	Female/Female	I

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PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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