

# AlIDisc-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

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

### Combination Antennas – Cellular+Wi-Fi

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 <sup>1</sup>	Peak Gain <sup>2</sup>	Efficiency <sup>3</sup>	Correlation Factor	Nominal Impedance	Polarization	Radiation Characteristics	Maximum Power <sup>4</sup>	DC Short
<b>LTE / 5G</b>									
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%						
<b>Wi-Fi 6E (1 &amp; 2)</b>									
2400 - 2485 MHz	≤ 2:1	8 dBi	80%	<0.02	50Ω	Linear, vertical	Omnidirectional	10 watts	
4900 - 7200 MHz	≤ 2:1	10 dBi	65%						

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

<sup>2</sup> Peak Gain values measured on ground plane (excluding cable)

<sup>3</sup> Antenna efficiency measured ?

<sup>4</sup> 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
<b>LL58 Cable</b>				
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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