



AllDisc-S

2/3/4/5G and WIFI 2x MIMO

AllDisc-S is a 3 in 1 antenna including cellular 2/3/4/5G and 2x2 MIMO WiFi 2/5GHz with a low profile and durable design, making it perfect for M2M applications, Internet Onboard, cargo handling 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.

- 3 in 1 antenna
- Cellular: 698-960MHz, 1710-2690MHz, 3400-3800MHz
- 2x MIMO for WiFi 2/5GHz
- Discreet design with center screw installation
- IP6K9K class and DC short
- Verified according to VW test requirements
- M2M, Smart metering, Internet on board, EV-charging stations

Specifications

Electrical: Cellular

Frequencies (2G/3G/4G/5G)	698-960MHz, 1710-2690MHz and 3400-3800MHz	
Impedance	50Ω	
Polarization	Vertical	
VSWR	698-880MHz	≤ 2:1
	880-960MHz	≤ 2.5:1
	1710-2690MHz	≤ 3:1
	3400-3800MHz	≤ 3:1
Gain, on ground plane (peak gain, excluding cable)	698-880MHz	4.5dBi
	880-960MHz	5dBi
	1710-1880MHz	5dBi
	1920-2170MHz	4.5dBi
	2500-2690MHz	3.5dBi
	3400-3800MHz	7dBi
Radiation Efficiency	698-960MHz	89%
	1710-2170MHz	89%
	2500-2690MHz	88%
	3400-3800MHz	82%
Max power	10W	

Electrical: WiFi

Frequencies	2400-2485MHz	
	4915-5825MHz	
Polarization	Vertical	
VSWR	≤ 2:1	
Gain, on ground plane (peak gain, excluding cable)	2400-2485MHz	3.5dBi
	4900-6000MHz	6.5dBi
Radiation Efficiency	2400-2500MHz	70%
	4900-6000MHz	53%

Mechanical

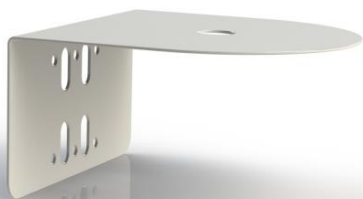
Dimensions (D x H)	96 x 55mm	
Installation	Hole mount with center screw Hole dimension Ø19mm Installation thickness ≤ 8.5mm Min. installation radius 1000mm Has to be mounted on a metal ground plane minimum size Ø25 cm.	
Cable	RG316, grey Cable length upon request	
Weight	~200g	
Material	PC/PBT/Aluminum alloy	
Color	Black, (Optional, White, Grey)	
IP class	IP6K9K	
Temperature	Storage / Operating:	-40°C to +85°C
UV protection	>10 years	

Selection of Alldisc-S MIMO WIFI versions

Part number	Antenna color	Radio System	Cable length (m)	Connector	Code
710633	Black	Cellular	0.20	FAKRA-m	D
		WiFi-1	0.25		I
		WiFi-2	0.30		I

Important: Please note that other cable lengths and connector types are available upon request. Please do not hesitate to contact your local Smarteq representative with your specific requirements.

Smarteq reserves the right to change specifications without prior notice



Alldisc bracket



Slitted nut



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

Accessories

Part number

710452	Alldisc Bracket White
710598	Slitted nut
710206	Extension nut

Extension cables

Part number	Cable LL58	Connector	Gender	Code
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

Other

RoHS compliant

REACH compliant

Certified according to 2014/53/EU Radio Equipment Directive (RED)

Type approval: E5 (ECE R10.5)

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