

AllDisc Combi Antenna 2G / 3G / 4G / 5G, GNSS, MIMO WiFi

AllDisc Combi antenna platform can be configured to support several antenna systems; Cellular bands 2G/3G/4G/5G, GPS/GLONASS/Galileo, Wi-Fi 2xMIMO 2.4/5GHz in a low profile casing with durable design IP6K9K. It is ground plane independent and enables flexible and easy installation, making it perfect for fleet management, track and trace, navigation, cargo handling and V2X. The superior RF performance enables high connectivity and throughput. The Alldisc has been successfully tested for durability according to Volkswagen automotive test standards.

Features

- Cellular: 698-960 / 1710-2690MHz and 3400-3800MHz
- 5G ready
- WiFi/BT: 2400-2485MHz and 4915-6000MHz
- GNSS: 1575-1610MHz
- GPS: L1, Galileo: E1, Glonass: L1
- LNA gain 30dB
- IP6K9K class
- Approved according to ECE-R118
- Designed in Sweden with design registration

Applications

- Public safety
- Track and trace
- Fleet management
- Navigation / Positioning
- V2X
- Cargo/load handling



Specifications

Electrical

Cellular 2G/3G/4G/5G

Frequencies	698-960MHz, 1710-2690MHz and 3400-3800MHz		
Impedance	50Ω		
Polarization	Vertical		
VSWR (0.2m cable)	698-790MHz	≤ 2:1	
	790-880MHz	≤ 2.0:1	
	880-960MHz	≤ 2.7:1	
	1710-1880MHz	≤ 2.5:1	
	1880-2170MHz	≤ 2:1	
	2500-2690MHz	≤ 3.0:1	
	3400-3800MHz	≤ 3.0:1	
Gain,	698-960MHz	4.5dBi	
on ground plane (peak gain, excluding cable)	1710-1880MHz	5dBi	
	1920-2170MHz	4.5dBi	
	2500-2690MHz	3.5dBi	
	3400-3800MHz	7dBi	
Gain, on non-conducting material	698-880MHz	1dBi	
(peak gain, excluding cable)	880-960MHz	1.5dBi	
	1710-1880MHz	4dBi	
	1920-2170MHz	3dBi	
	2500-2690MHz	3dBi	
	3400-3800MHz	6.5dBi	
VSWR (0.2m cable)	698-790MHz	≤ 2:1	

WiFi

Frequencies	2400-2485MHz	
	4915-5825MHz	
Polarization	Vertical	
VSWR	≤ 1.5:1	
Gain,	2400-2485MHz	3.5dBi
on ground plane (peak gain, excluding cable)	4900-6000MHz	6.5dBi





GNSS 1575-1610MHz (GPS L1, Galileo E1, Glonass L1) Frequencies Impedance 50Ω Polarization RHCP ≤ 2.0:1 VSWR Gain Passive -3.5dBic @ fc (peak gain) Gain Active 30<u>+</u>2dB Supply Voltage 2.8-5.5V 15-25mA **Current Consumption**

Mechanical

Installation	Hole mount with center screw			
	Hole dimension Ø19mm			
	Installation thickness ≤ 8.5mm			
	Min. installation radius 2000mm			
Cable Other cable length upon request	RG316		0.2m	
Connector	Cellular	Bordeaux	Code D	
FAKRA Male	GNSS	Blue	Code C	
	WiFi #1	Beige	Code I	
Other connector type upon request	WiFi #2	Beige	Code I	
Weight	~200g			
Material	PC / PBT / Aluminum alloy			
IP class	IP6K9K			
Temperature	Storage		-40°C to +85°C	
	Operating		-40°C to +85°C	

Selection of Alldisc Combi versions

Part number	Antenna color	Radio System	Cable length (m)	Connector	Code
710260	Black	Cellular GNSS	0.20 0.25	FAKRA-m	D C
710261	Black	Cellular GNSS WiFi	0.20 0.25 0.30	FAKRA-m	D C I
710501	Black	Cellular GNSS WiFi #1 WiFi #2	0.20 0.25 0.30 0.35	FAKRA-m	D C I

Other antenna combinations and connector/cable lengths are available please contact Smarteq Sales for information











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	Ζ/
710608	2.5m	FAKRA	Female/Female	D
710609	2.5m	FAKRA	Female/Female	С
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	С
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)	

Smarteq reserves the right to change specifications without prior notice.



