

AllDisc Combi GNSS MIMO-WiFi

Combination Antenna



AllDisc Combi GNSS MIMO-WiFi is a 5G ready, low profile antenna with durable design. The antenna is ground plane independent and enables flexible and easy installation. Perfect for M2M applications such as fleet management, track and trace and smart metering.

- Cellular: 698-960MHz, 1710-2690MHz and 3400-3800MHz
2x WiFi: 2400-2485MHz and 4915-5825MHz
GNSS: 1575-1610MHz (GPS: L1, Galileo: E1, Glonass: L1)
- Discreet design with center screw installation
- IP6K9K class
- DC short
- Cable approved acc ECE-R118
- Designed in Sweden with Design registration

Specifications

Electrical

Cellular (2G/3G/4G/5G)

Frequencies	698-960MHz, 1710-2690MHz and 3400-3800MHz	
Impedance	50Ω	
Polarization	Vertical	
VSWR (0,5m 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, on ground plane (peak gain, excluding cable)	698-960MHz	4.5dBi
	1710-1880MHz	5dBi
	1920-2170MHz	4.5dBi
	2500-2690MHz	3.5dBi
	3400-3800MHz	7dBi
Gain, on non-conducting material (peak gain, excluding cable)	698-880MHz	1dBi
	880-960MHz	1.5dBi
	1710-1880MHz	4dBi
	1920-2170MHz	3dBi
	2500-2690MHz	3dBi
3400-3800MHz	6.5dBi	

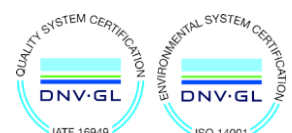
2pcs of WiFi antennas

Frequencies	2400-2485MHz
	4915-5825MHz

Smarteq, based in Stockholm, Sweden, is a leading developer of antennas and antenna systems for increased availability. Smarteq aims towards the market segments industry, energy and vehicles.

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SMARTEQ[™]
WIRELESS



Polarization	Vertical
VSWR	$\leq 1.5:1$
Gain, on ground plane (peak gain, excluding cable)	2.15dBi

GNSS

Frequencies	1575-1610MHz (GPS L1, Galileo E1, Glonass L1)
Impedance	50 Ω
Polarization	RHCP
VSWR	$\leq 2.0:1$
Gain Passive (peak gain)	-3.5dBic @ fc
Gain Active	30 \pm 2dB
Supply Voltage	2.8-5.5V
Current Consumption	15-25mA

Isolation	Cellular to GNSS	>20dB
	Cellular to Wifi	>30dB

Mechanical

Dimensions (D x H)	138 x 55mm	
Installation	Hole mount with center screw Hole dimension \varnothing 19mm Installation thickness ≤ 8.5 mm Min. installation radius 2000mm	
Cable	RG316, brown Cable length upon request	
Connector	Connector type upon request	
Weight	~200g	
Material	PC/PBT/Aluminum alloy	
IP class	IP6K9K	
Temperature	Storage	-40°C to +85°C
	Operating	-40°C to +85°C

Other

This part is RoHS compliant.

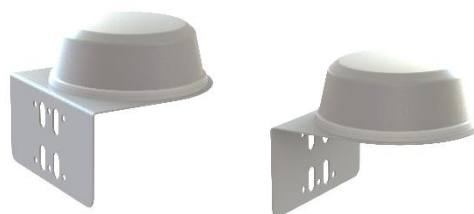
Certified according to 2014/53/EU Radio Equipment Directive (RED)

Type approval: E5 (ECE R10.5)

Accessories

710452 AllDisc Bracket White

Smarteq reserves the right to change specifications without prior notice.



AllDisc Bracket