



AlIDisc

Cellular Antenna

2G / 3G / 4G / 5G / NB-IoT

AlIDisc antenna is a 5G ready, low profile antenna with durable design. It is ground plane independent enabling flexible and easy installation. It is the perfect choice for Smart City/metering, EV-charging, M2M applications and load handling. 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: 617-960MHz, 1710-2690MHz and 3300-3800MHz
- 5G ready
- IP6K9K class
- Cable approved according to ECE-R118
- Designed in Sweden with design registration

Applications

- Smart City
- Smart Metering
- EV charging poles
- Cargo/load handling
- Wireless broadband
- Public safety
- Agriculture
- Forest machines

Specifications

Electrical

Cellular Main LTE/5G

Frequency band [MHz]	617 – 698	698 – 960	1710 – 2690	3300 – 3800
VSWR* (typical)	$\leq 3 : 1$	$\leq 2.7 : 1$	$< 2.1 : 1$	$< 1.9 : 1$
Peak gain* [dBi]	1dBi	5.5dBi	4.5dBi	6.5dBi
Antenna efficiency*	~40%	~65%	~77%	~66%

Impedance 50Ω

Polarization Linear

Radiation characteristics Omnidirectional

Max power (ambient temp. of 25°C) 10W

DC short Yes

Impedance 50Ω

Polarization Vertical

Mechanical

Dimensions (D x H) 138 x 55mm

Installation
Hole mount with center screw
Hole dimension Ø19mm
Installation thickness ≤ 8.5 mm
Min. installation radius 2000mm

Cable
RG316, grey
Other cable length upon request

Connector SMA-Male, Other connector type upon request

Weight ~200g

Material PC/PBT/Aluminum alloy

Color Black, White, Grey (RAL7035)

IP class IP6K9K

Temperature	Storage	-40°C to +85°C
	Operating	-40°C to +85°C



Selection of Aldisc Combi versions

Part Number	Color	Cable length	Cable	Connector
710259	Black	0.5m	RG316 grey	SMA-Male
710266	Black	2.5m	RG316 grey	SMA-Male
710542	White	0.5m	RG316 grey	SMA-Male

Other

RoHS

REACH compliant

ECE-R118 compliant

Accessories

Part number	
710452	Aldisc Bracket White
710598	Slitted nut
710206	Extension nut

Extension cables

Part number	Cable LL58	Connector	Gender	Color
201417-1	3m	SMA	Female/Male	White
201417-2	5m	SMA	Female/Male	White
201417-3	10m	SMA	Female/Male	White
201417-7	5m	SMA	Female/Male	Black

Part number	Cable Low Loss	Connector	Gender	Color
707220	3m	SMA	Female/Male	Black
710298	5m	SMA	Female/Male	Black
707222	10m	SMA	Female/Male	Black

Smarteq reserves the right to change specifications without prior notice.