

SmartDisc Combi

Cellular, GNSS+, MIMO Wifi



SmartDisc Combi, Combination antenna supporting -Cellular 2G, 3G, 4G; - GNSS and MIMO WiFi in a low profile enclosure with durable design. The antenna is ground plane independent enabling flexible and easy installation. Perfect for M2M applications such as fleet management, track and trace mobile gateways. Dual feed GNSS antenna enables excellent Axial ratio and gain. Pre-filtered LNA ensures functionality in a combination antenna.

- Cellular: (698) 790-960MHz and 1710-2690MHz
- GNSS : 1559-1606MHz (GPS, Galileo, Glonass and Beidou)
- 2x WiFi: 2400-2485/4900-5900MHz
- Discreet design with center screw installation
- Pre-filter LNA
- Dual feed GNSS antenna
- IP67 class
- Cable approved acc ECE-R118
- Designed in Sweden with Patented technology

Specifications

Cellular

Frequencies	Cellular	(698) 790-960MHz 1710-2690MHz
Impedance	50Ω	
Polarization	Cellular	Vertical
VSWR	Cellular	4:1
Gain (Mean peak)*	698-790MHz	-3dBi
	790-960MHz	2.4dBi
	1710-2690MHz	5,5dBi
Radiation efficiency*	698-790MHz	14%
	790-960MHz	48%
	1710-2690MHz	65%

*Measured on 1m GND 15cm cable

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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 vehicles.

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GNSS

Frequencies	1559-1606MHz (GPS, Galileo, Glonass, Beidou)	
Impedance	50Ω	
Polarization	RHCP	
VSWR	< 2.5:1	
Gain Passive (peak gain)	GPS	3.0dBic
	GLONASS	2.0dBic
	BEIDOU	1,5dBic
	GALILEO	2.0dBic
Gain Active	30 ± 1 dB	
Noise figure	< 2.5 dB with pre-filter (1.2 dB no pre-filter)	
Supply Voltage	2.0-6V	
Current Consumption	8-10mA	

2x WiFi

Frequencies	2400-2485 / 4900-5900MHz	
Impedance	50Ω	
Polarization	RHCP	
VSWR	2400-2485MHz	< 2:1
	4900-5900MHz	< 3:1
Gain (Mean peak)*	2400-2485MHz	5dBi
Radiation efficiency*	2400-2485MHz	50%
	4900-5900MHz	52%

Mechanical

Dimensions (D x H)	96 x 26mm	
Installation	Hole mount with center screw	
	Std screw: Material thickness ≤ 3.5mm	
	Hole dimension Ø19mm	
	Min. installation radius 1000mm	
Cable	Cable length and type acc to customer request	
Connector	Cable length and type acc to customer request	
Weight	~190g	
Material	PC/PBT/Aluminium alloy	
Colour	Black or white	
IP class	IP67	
Temperature	Operating/Storage	-40°C to +85°C

Other

RoHS compliant.

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

*Preliminary*
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