



SMARTEQ™ antennas

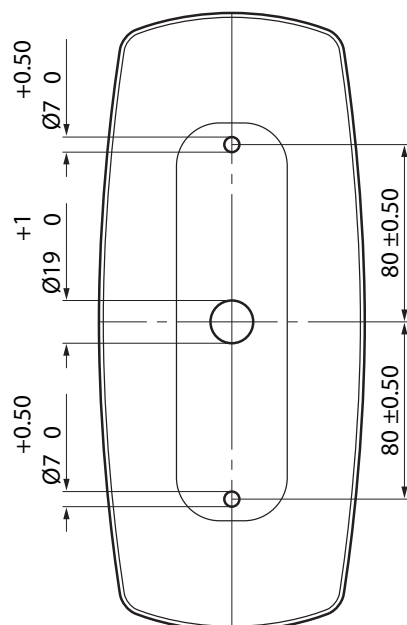
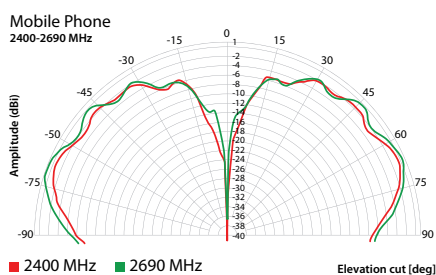
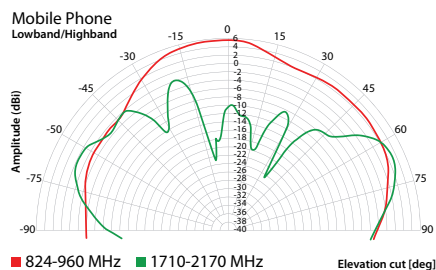
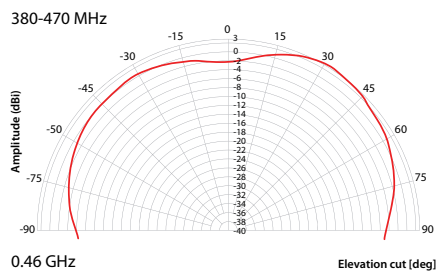
Smarteq's LPCA (Low Profile Combination Antenna) - is a low profile, robust combination antenna designed for use in telematics applications.

The antenna is the perfect choice when the application needs a multifunction solution with tetra, cellular and GPS combined for e.g. buses, heavy vehicles, ambulances, forest machines etc.

Key features:

- **Multifunction antenna**
400/900/1800/1900/2100/2600 + GPS
- **Low profile, only 50 mm in height**
- **Ground-plane independent**
- **Robust**
- **IP67**
- **Developed with Smarteqs patented RF technology**
- **State of the art**





Specifications LPCA

Mechanical

L x W x H	280 x 120 x 50 mm
IP class	67
Temperature	-40 to +85 °C
Cable	RG316, 300 mm
Connector 380-470	FAKRA Code H, Violett, male
Connector Mobile phone	FAKRA Code D, Bordeaux, male
Connector GPS	FAKRA Code C, Blue, male

380-470 MHz

Frequency range	380-470 MHz depending on variant
Frequency range, standard	430-470 MHz
Impedance	50 Ω
VSWR	<2:1
Polarisation	VP
Radiation characteristics	Omni
Gain	2.15 dBi

Mobile Phone

Mobile phone frequency (Low Band)	824-960 MHz
Mobile phone frequency (High Band)	1710-2690 MHz
Impedance	50 Ω
VSWR (Low Band)	<2.3:1
VSWR (High Band)	<2:1
Polarisation	Linear
Radiation characteristics	Omni
Gain, Low band	2.15 dBi
Gain, High band	3.15 dBi

GPS

GPS frequency	1575.42 MHz
Bandwidth	2 MHz
Impedance	50 Ω
LNA Gain (S21) @ Fc	29 dB
Supply voltage (phantom feed)	2.6 - 10 VDC
Noise figure @ BW	1.2 dB
VSWR @ Fc	1.5 ratio
Out of Band rejection Fc+50 MHz	>25 dB
Supply current @ 2.6 to 6 VDC	17 - 19 mA
Patch antenna gain @ zenith	3.5* dBi
Polarisation	RCHP
Axial ratio	3 dB

Smarteq reserves the right to change specifications without prior notice.

SMARTEQ™
antennas



Smarteq is certified according to ISO/TS 16949, ISO 14001

Smarteq, based in Stockholm, Sweden, is a leading developer of antennas and antenna systems for increased availability, efficiency, and security in the more and more wireless world. Smarteq aims towards the market segments M2M, automotive, and mobile communications (of voice and data).

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