



LPCA 10

LPCA 10 (Low Profile Combination Antenna) is a rugged, low profile combination antenna designed for use in telematics applications. It features alternative custom-sized options as GNSS for the rolling stock industry.

- Designed for 380-410 MHz
- Optional GNSS: 1575-1610MHz (GPS: L1, Galileo: E1, Glonass: L1)
- Low profile, height 50mm
- Ground plane independent
- Rugged
- IP67
- Cable approved acc ECE-R118
- Designed in Sweden in collaboration with the forest industry

Specifications

Electrical

TETRA +GNSS

Frequencies	380-410MHz		
Gain	395 MHz	3 dBi on metal	4 dBi free space
Impedance	50Ω		
Polarization	Vertical		
Radiation characteristics	Omni		
VSWR	<2,5:1		
Max power	10W		

GNSS

Frequencies	1575-1610MHz (GPS: L1, Galileo: E1, Glonass: L1)
Impedance	50Ω
Polarization	RHCP
VSWR	≤ 2.0:1
Gain Passive (peak gain)	-3.5dBic @ fc
Gain Active	27dB
Supply Voltage	2.8 - 5.5V
Current Consumption	15 - 25mA



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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 and vehicles.

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Mechanical

Dimensions (L x W x H)	280 x 120 x 50mm		
Installation	Hole mount, Ø19mm and 2 x Ø7mm Installation thickness ≤ 6mm		
Cable length/type	Tetra	0,5m	RG316
	GNSS	0,6m	RG316* optional
Conenctor	Tetra	FAKRA (m)	Code H
GNSS* optional	GNSS	FAKRA (m)	Code C
IP class	IP67		
Temperature	Storage / Operating		-40°C to +85°C

This part is RoHS compliant
Certified according to 2014/53/EU Radio Equipment Directive (RED)

*Measurements are made on Ø1m ground plane
Smarteq reserves the right to change specifications without prior notice



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