



# LPCA 10 + GNSS

LPCA 10 (Low Profile Combination Antenna) is a rugged, low profile combination antenna designed for use in telematics applications. Could be configured with a LNA equipped GNSS antenna (GPS/Glonass/Galileo).

- Designed for 380-410 MHz
- 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		



Preliminary

**SMARTEQ**<sup>™</sup>  
WIRELESS

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.

smarteq.com info@smarteq.com +46 8 792 92 00



## 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
Conenctor	Tetra	FAKRA (m)	Code H
GNSS	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



Preliminary

**SMARTEQ**<sup>™</sup>  
WIRELESS

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.

smarteq.com info@smarteq.com +46 8 792 92 00

