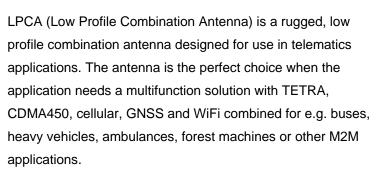


Combination Antenna

The antenna family has 10 different configurations



- Configurable design Tetra, CDMA450, Cellular, GNSS, WIFI
- Low profile, height 50mm
- Ground plane independent
- Rugged
- IP67
- Cable approved acc ECE-R118
- Designed in Sweden in collaboration with the forest industry

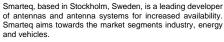
Specifications

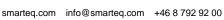
Electrical

TETRA / CMDA450

Frequencies	TETRA	380-410MHz			
		410-430MHz			
		430-450MHz			
	CDMA450	450-470MHz			
Impedance	50Ω				
Polarization	Vertical				
Radiation characteristics	Omni	Omni			
VSWR	2:1 *				
Gain	2.15dBi *				
Max power	10W				
Cellular					
Frequencies	790-960MHz	1710-2690MHz			
Impedance	50Ω				
Polarization	Vertical				
Radiation characteristics	Omni				
VSWR	790-960MHz	3:1 *			
	1710-2690MHz	2:1 *			
Gain	790-960MHz	2.15dBi *			
	1710-2690MHz	3.15dBi *			
Max power	10W				











+0.50 Ø7 0	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80 ±0.50
057 0	80 ±0.50

GNSS (GPS / Glonass/Galileo)		
Frequency	1575-1610 MHz (GPS L1, Glonass L1, Galileo E1)	
Impedance	50Ω	
Polarization	RHCP	
VSWR	<2.0:1 *	
Passive gain (peak)	-3.5dBic@fc	
Active gain	27dB	
Supply voltage	2.8-5.5V	
Typical current consumption	15-25mA	
WiFi		
Frequencies	2400-2485MHz / 4915-5875MHz	
•		
Impedance	50Ω	
Polarization	Vertical	
Radiation characteristics	Omni	
VSWR	1.5:1 *	
Gain	2.15dBi *	
Max power	10W	

Mechanical

Dimensions (L x W x H)	280 x 120 x 50mm					
Installation	Hole mount, Ø19mm and	Hole mount, Ø19mm and 2 x Ø7mm				
	Installation thickness ≤ 6r	Installation thickness ≤ 6mm				
Cable	TETRA, CDMA450	615mm RG316				
	Cellular	515mm RG316				
	GNSS	565mm RG316				
	WiFi	465mm RG316				
Connector	Version 1,3-6 Version 2	Fakra (m) SMA(f)				
	Version 7	TNC(m)				
	Version 8-9	FME(f)				
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)

Antenna selection guide

	TETRA 380-410MHZ	TETRA 410- 430MHZ	ISM 430-450MHz	CDMA 450 450-470 MHz	Cellular	GNSS	WiFi
710068 LPCA 1							
710100 LPCA 2							
710130 LPCA 3							
710153 LPCA 4						•	
710156 LPCA 5	•					•	
710150 LPCA 6							
710289 LPCA 7							
710494 LPCA 8							·
710460 LPCA 9	***						·

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

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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