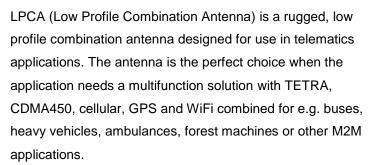


# **Combination Antenna**



- Configurable design Tetra, CDMA450, Cellular GPS, 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

TETRA	380-410MHz			
	410-430MHz			
CDMA450	450-470MHz			
50Ω				
Vertical				
Omni				
2:1 *				
2.15dBi *				
10W				
790-960MHz 1710-2690M				
50Ω				
Vertical				
Vertical Omni				
	3:1 *			
Omni	3:1 * 2:1 *			
Omni 790-960MHz				
Omni 790-960MHz 1710-2690MHz	2:1 *			
	CDMA450 50Ω  Vertical  Omni 2:1 * 2.15dBi * 10W			



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.





+0.50 Ø7 0	
1+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80 ±0.50
40.50	80±0.50

GPS	
Frequency	1575.42MHz
Impedance	50Ω
Polarization	RHCP
VSWR	1.5:1 *
Passive gain @ zenith	3.5dBic (on 50x50mm ground plane)
Axial ratio	3dB *
Active gain	29dB
Noise figure	1.2dB
Out of band rejection	>25dB
Supply voltage	3-5V
Typical current consumption	17-19mA
	•

# 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 an	Hole mount, Ø19mm and 2 x Ø7mm			
	Installation thickness ≤ 6	Installation thickness ≤ 6mm			
Cable	TETRA, CDMA450	615mm RG316			
	Cellular	515mm RG316			
	GPS	565mm RG316			
	WiFi	465mm RG316			
Connector	Version 1, 3-6	Fakra(m)			
	Version 2	SMA(f)			
IP class	IP67				
Temperature	Storage / Operating	-40°C to +85°C			

This part is RoHS compliant

# Antenna selection guide

	TETRA 380-410MHZ	<b>TETRA</b> 410-430MHZ	CDMA 450	Cellular	GPS	WiFi
<b>710068</b> LPCA 1						
<b>710100</b> LPCA 2						
<b>710130</b> LPCA 3						
<b>710153</b> LPCA 4						
<b>710156</b> LPCA 5						
<b>710150</b> LPCA 6						
<b>710289</b> LPCA 7						

<sup>\*</sup>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.





