

# Ant™

## Multifunction antenna



Ant is a multifunction antenna for vehicle roof mount. Ant is designed to meet a constant need for improved, reliable communication between vehicles and logistic security centres. Ant includes a mobile phone antenna, GPS antenna with LowNoise Amplifier and an option to mount an external radiator. A wide range of radiators for different frequencies are available.

Ant can be used in different applications depending on which system it is integrated with: Fleet Management, safety/security systems, logistics and other telematics applications. It's slim and aerodynamic design makes it perfect to use both on HGVs and smaller vehicles, like taxis, pick-ups, vans etc.

- **Multifunction antenna configured for four bands**
- **For both communication and GPS positioning systems**
- **Available for GSM 900/1800 and GPS, optional radiator of your own choice**
- **Available for AMPS/PCS 800/1900 and GPS**
- **GPS antenna with a matched Low Noise Amplifier**
- **Filter technique for GPS to prevent disturbances**
- **Slim and aerodynamic shape**
- **All versions RoHS compliant**

**SMARTEQ™**  
■■■■■ antennas

[www.smarteq.com](http://www.smarteq.com)



# Specifications

## Electrical

Frequencies	Product No:	72488-1	72488-2
	Mobilephone:	890–960 MHz 1710–1880 MHz	824–895 MHz 1850–1990 MHz
	GPS:	1575.42 MHz	1575.42 MHz
	Radiator:	27–600 MHz	27–600 MHz
Impedance	Nominal 50 Ω		
Polarization	Mobilephone:	Vertical Linear	
	GPS:	RHCP	
	Radiator:	Vertical Linear	
VSWR	Mobilephone:	2:1	
	GPS:	1.5:1 @ 1575.42 MHz	
Gain	Mobilephone:	1 dBd (3,15dBi)	
	GPS:	Passive: 5 dBic @ zenith Active: 27 dB	
Max Power	Mobilephone:	10 W	
	Radiator:	25 W	
Supply voltage	3–5 V		

## Mechanical

Dimension	108 x 80 x 60 (LxWxH) mm (without optional radiator)		
Weight	167 g including cables and connectors		
Material	See separate delivery specification		
Colour	Black		

## Environmental

Temperature	Storage:	-40°C +85°C	
	Operating:	-40°C +85°C	

## Other

Cable	RG316	Mobilephone:	200 mm
		GPS:	130 mm
		Optional radiator:	150 mm
Connector		Mobilephone:	FME (m) or FAKRA II
		GPS:	SMA (m) or FAKRA II
		Optional radiator:	FME (f) or FAKRA II

## Product No, versions

72488-6	Fakra connector
72488-L1	Left pigtail
72488-L6	Left pigtail Fakra II

Smarteq reserves the right to change specifications without prior notice.

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Smarteq develops and supplies high-quality antennas and antenna systems for the wireless transfer of speech and data, communication to and from vehicles and machine to machine. Our staff is fully focused on developing high-performance antennas that will continue to set new standards of excellence that will exceed our customers' expectations



**Smarteq Wireless AB**

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