

# Combi GSM-DCS / GPS flat antenna

To be drilled - GSM : SMA male / GPS : SMB female

Rev.29/09/2006

**Order Code: 62782C1203**

This GSM/DCS/GPS antenna is designed for an horizontal use and outside, as the upper part of the antenna must be positioned on the GPS satellites sight.

The radiation is ensured on the upper part of the antenna as a M12 threaded axis allows to fix it (through-hole assembly, to be drilled).

The antenna is delivered with 2 cables of 5 meters each (SMA-M for GSM/DCS, SMB-F for GPS), and is directly power-supplied by the **GenLoc 31e** modems. Its internal amplification in GPS allows a gain of +28dB max.

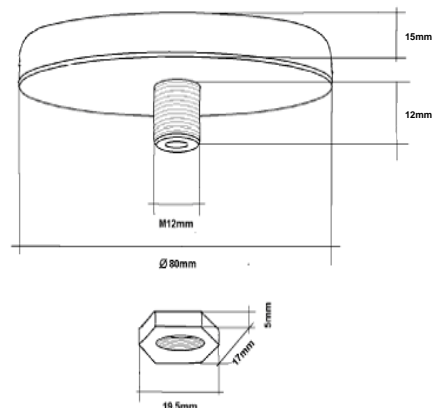
Type  
Band  
Frequencies

W.S.W.R  
Impedance  
Gain

Supplying (GPS)  
Consumption (GPS)  
Sort of cable  
Cable length  
Connection

Operating Temperature  
Storage Temperature  
Vibration  
Humidity  
Tightness  
Assembly  
Weight  
Dimensions

Combi GSM/DCD/GPS flat antenna	
GSM/DCS	GPS
824MHz to 894MHz (AMPS) 880 MHz to 960MHz (GSM) 1710MHz to 1990MHz (DCS/PCN)	1575.42MHz ±3MHz
2.0:1 50 ohms	1.5:1 50 ohms
<u>2dBi+/-1dB at 850MHZ</u> <u>2dBi+/-1dB at 900MHZ</u> <u>1dBi+/-1dB at 1800MHZ</u> <u>1dBi+/-1dB at 1900MHZ</u>	28dB/other Typical
RG174 5m SMA-male	3.0 à 5.0VDC 15mA Max RG174 5m SMB-female
-40°C to +85°C -45°C to +100°C 1g(0-p)10~50~10Hz on each axis 95%~100%RH 100% Waterproof - IP64 To be drilled - fixing by M12 threaded axis (h :12mm) 190g Diameter : 80mm , Thickness: 16mm	



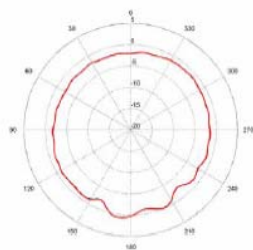
ERCO & GENER SA may at any time and without notice make changes and improvements to the products and services offered

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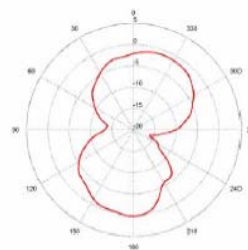
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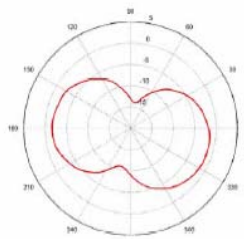
## GSM/DCS Antenna Typical Gain Pattern GSM Antenna @ 900MHZ



Phi = 0 degrees

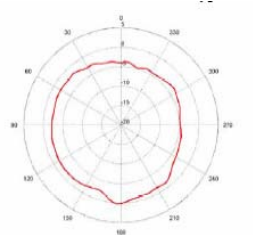


Phi = 90 degrees

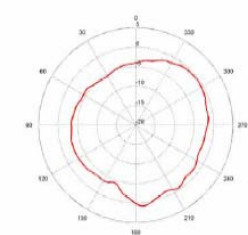


Theta = 90 degrees

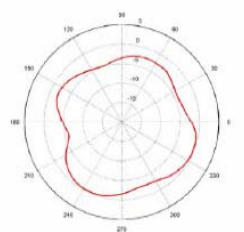
## DCS Antenna @ 1800MHZ



Phi = 0 degrees



Phi = 90 degrees



Theta = 90 degrees

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