



All Band GSM Omnidirectional Antenna

Operating Frequency 860-980MHz & 1710-2170MHz

Product code: Product Code OMNI-A0121



This medium gain omnidirectional antenna covers the GSM 900 and GSM1800 / UMTS bands. Its configuration is suitable for various GSM communications systems including 3G/HSPA.

Features:

- Broadband.
- Covers most international GSM bands.
- Robust and weatherproof

Application areas:

This antenna provides communications capabilities for the following:

Standard	Frequency (MHz)
GSM900	880 - 960
GSM 1800 / PCS/ PCN	1710 - 1880
DECT	1880 - 1900
PHS Japan, Taiwan and China only	1895 - 1918
GSM "GSM1900" USA and Canada only	1850 - 1990
UMTS	1900 - 2170



Specifications:

Product Code: OMNI-A0121
Features: 8 m HDF195 with SMA(m) connector, wall mount anchor

Electrical:

Frequency (MHz)	860-980	1710-2170
Gain (max)*	2.8 dBi (+- 0.5 dB)	5 dBi (+-0.5 dB)
Gain (min over the band)*	0 dBi (+-0.5 dB)	0 dBi (+-0.5 dB)
VSWR	< 2.5:1	<2.5:1
E-plane 3 dB beamwidth	40° (± 5°)	25° (± 5°)
H-plane 3 dB beamwidth	360°	
H-Plane Ripple (max)	4 dB	
Feed power handling	10 W	
Nominal input impedance	50 Ohm	
Polarisation	Linear	

Environmental:

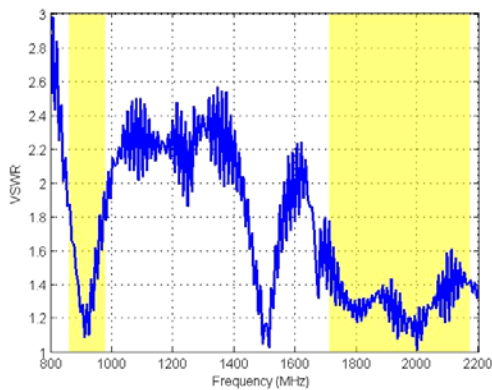
Wind Survival	160 km/h
Temperature Range (Operating)	- 20° C to +70° C
Shock	40G at 10 msec
Thermal Shock	-20°C to +70°C:10 cycles
Water Ingress Rating	IP65 (NEMA 4X)

Mechanical:

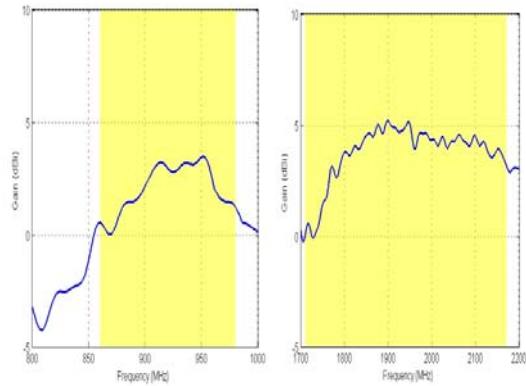
Dimensions (l x w x d)	550mm x 50mm x 50 mm
Weight	0.3 kg
Mounting	Wall Mount Anchors

*Measured at the antenna

VSWR and Gain Pattern:

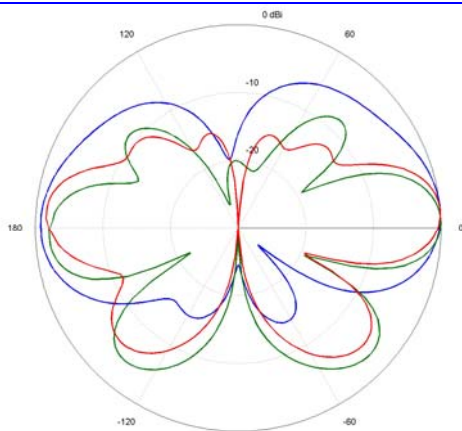


VSWR (at end of 8m Cable)

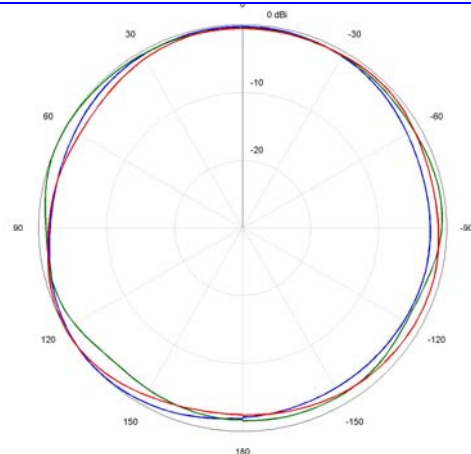


Gain (Measured at Antenna)

Radiation Patterns



E-Plane



H-Plane

Legend: -935MHz -1861MHz -2110MHz



Mechanical Drawings

