



Stella Doradus Ireland Ltd.

GSM900+ GSM1800 + UMTS Mobile phone signal booster Part No.: SDI-1000GDW



The SDI-1000GDW Booster boosts the signal strength and coverage for all GSM 900, GSM1800 and UMTS/ 3G services.

It is compatible with all Irish / UK/ European mobile phone operators and can be installed indoors or outdoors.

Booster Specifications	GSM900	GSM 1800	UMTS
Coverage	1000m ²	1000m ²	1000m ²
No. of people	>100	>100	>100
Gain : Uplink Gp	≥ 65dB	≥ 65dB	≥ 65dB
Gain : Downlink Gp	≥ 70dB	≥ 70dB	≥ 70dB
Pass band ripple	≤ 4dB	≤ 4dB	≤ 4dB
I/O impedance / N connector	50 ohm	50 ohm	50 ohm
Max signal strength	≥ <u>10</u> dBm	≥ <u>10</u> dBm	≥ <u>17</u> dBm
Ambient Temperature		-30 °C to +70°C	
Power supply input		110 - 240V AC	
Power supply output		12V DC	

Mechanical Specifications - Booster	
Length	43.5cm
Width	22.5cm
Depth	7.5 cm
Weight	2.5Kg
Windage(at 215kmph)	28 kg
Mechanical Tilt	0-25 degrees
Mounting Pipe	5 cm pipe

Materials - Booster	
Radiating Element	Beam forming PCB patch array
Radome (feed)	White UV stabilised Polystyrene
Brackets	HDG steel + galvanised steel bolts

Electrical Specification Outdoor antenna	GSM900	GSM1800	UMTS
Nominal Gain	8dBi	9dBi	9dBi
3dB beam Pattern	60° x 60°	60° x 60°	75° x 50°
Bandwidth	880 - 915MHz 925 - 960MHz	1710 - 1785MHz 1805 - 1880MHz	1.92 - 2.17GHz
VSWR	1.8 : 1	1.8 : 1	1.8 : 1
Front to Back Ratio	20dB	15dB	20dB
Polarization	Vertical	Vertical	Vertical
Power Rating	50W	50W	50W
Impedance	50-OHM	50-OHM	50-OHM
Termination		N Female	
Cross Pol. Discrimination		-20dB	-20dB

Electrical Specification	Indoor antenna		
Nominal Gain	2dBi		
3dB beam Pattern	360°		
Bandwidth	880 - 915MHz 925 - 960MHz	1710 - 1785MHz 1805 - 1880MHz	1.92 - 2.17GHz
VSWR	1.8 : 1		
Front to Back Ratio	15dB		
Polarization	Vertical		
Power Rating	50W		
Impedance	50-OHM		
Termination	SMA male		
Cross Pol. Discrimination	-20dB		

Power Supply Specification	
AC input	100-240V
	1.2A
	50-60Hz
DC output	12V
	2A max
	30W Max
Typical power usage	15W