

StellaBoost 5.4 MARINE

..amplifying mobile signal on large ships



800Mhz / 900Mhz / 1800Mhz / 2100Mhz / 2600Mhz

Do not use StellaDoradus repeaters with non Stelladoradus equipment.

Stelladoradus repeaters operate silently on the operators network. By using our equipment with competitors equipment you break this control system and could potentially harm the operators network. Doing so will void warranty.

 **StellaDoradus**
Mobile Signal Booster Manufacturer
www.stelladoradus.com

StellaBoost^{5.4} MARINE

How it works

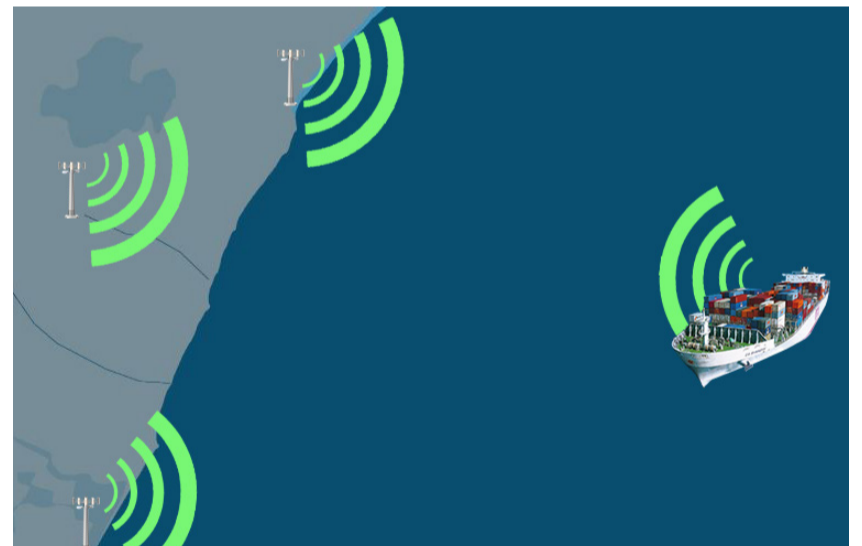
The external omni-directional antenna is mounted high up on the ship. This receives the signal from all operators 360deg around the ship. It will receive the signal from several masts on the coastline. A 15 meter cable then sends the signal to the repeater which is located inside the ship. (This length can be extended using a pre-amplifier)

One indoor panel antenna can be connected to the repeater to provide coverage in one area inside the ship. Typically, 10-15 rooms will get coverage from this one antenna. 4 antennas each providing 1000m² (tested in open space)



When your ship passes within ~30Km of any mobile tower, the MarineBoost system will receive this signal and amplify it into your ship.

The external omni-directional antenna receives all mobile signals from all nearby operator towers on the land.



The repeater kit



- One MarineBoost 5.4
- Four internal panel antennas
- 15 meter length of SD400 cable.
- 3 lengths of SD240 cable
- 1 outdoor omni-directional antenna
- One 12v power supply

StellaBoost^{5.4} MARINE

- Model number: SD-RP1001LGDWH-O-4P
- Frequency(Mhz): 800/900/1800/2100/2600
- Networks: GSM/3G/4G



Frequency bands(Mhz):	(791_862) + (880_960) + (1710_1880) + (1920_2170) + (2500_2690)
Coverage:	5-15 (rooms)
Number of People:	unlimited
Gain:	Uplink Gp > 50dB Downlink Gp > 60dB
Pass band ripple:	< 4dB
I/O impedance:	50 ohm/SMA female connector
Max uplink/downlink signal strength:	17dBm / 10dBm
Ambient Temperature:	-30°C to +70°C
Power supply input:	110 - 240V AC
Power supply output:	12v DC
Oscillation Control	Automatic
Level Control:	Automatic*
Uplink Switch Off	Yes**
AGC Range	30db
Surge protection	SMA connectors DC grounded, 12V DC port MOV protected

Antenna Specifications

Indoor antenna

outdoor omni antenna

Nominal Gain	6.4dBi / 9.4dBi	4.5dBi / 5dBi
3dB beam Pattern	60° x 60°	38° / 35° omni
Bandwidth	790-960MHz + 1710-2700MHz	790-960MHz + 1710-2700MHz
VSWR	<1.4	<2
Front to Back Ratio	> 20dB	> 20dB
Polarization	Vertical	Vertical
Power Rating	50W	100W
Impedance	50-OHM	50-OHM
Termination	SMA male	N-Female
Cross Pol. Discrimination	-20dB	-20dB
Dimensions	210 x 180 x 43mm	365 x 33mm
Weight	0.68kg	0.39kg
Rated wind velocity	126km/hr	216Km/h
Working temperature	-40°C to +65°C	-40°C to +65°C

Power Supply Specification

AC	100-240V	50-60Hz
DC input	12V	3.6A
Typical power usage	33W	

Mechanical Specification

Length	35cm
Width	30cm
Depth	4.3cm
Weight	2kg
Mounting	4 x 5mm holes for mounting

* Automatically adjusts during installation. Thereafter, automatically adjusts for seasonal variation in pathloss between Basestation and Outdoor Antenna.

** The uplink amplifiers switch off when the repeater is not in use, thus reducing the uplink noise to almost zero. When the repeater is in use (eg phone call being made), the uplink amplifier switches on for the duration of the call and a blue LED switches on indicating this is the case.

Note: Specifications subject to change without notice.