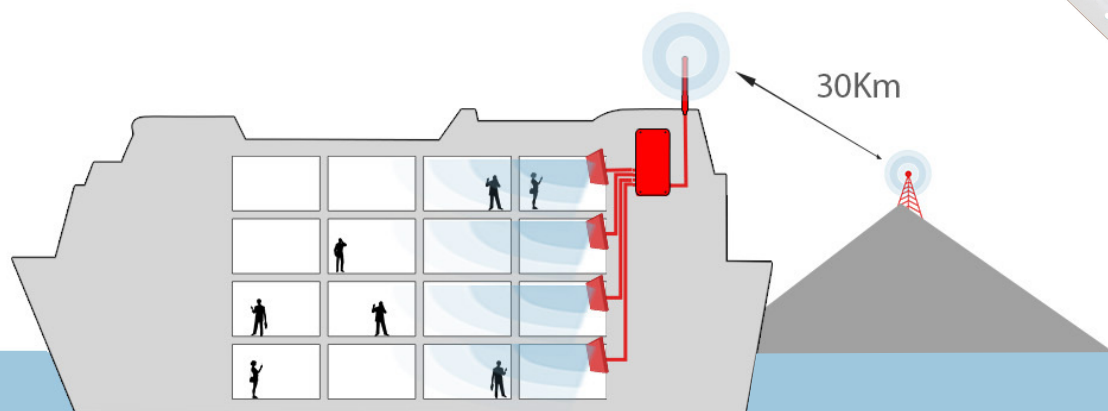


# MarineBoost<sub>LGW-4</sub>

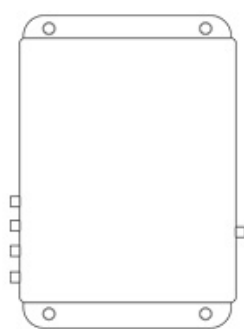


## How it works

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 base stations on the coastline.

The 15 meter SD400 coaxial cable sends the signal down to the repeater which is installed inside the ship.  
Indoor panel antenna(s) can be connected directly to the repeater or extended by using the provided cables. Each antenna offers coverage for 2-3 rooms inside your ship.

## The repeater kit includes



MarineBoost  
4 port



Indoor  
antennas X4



Outdoor  
Antenna



Power  
Supply



15m SD240  
Cable X4



15m SD400  
Cable

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.

# MarineBoost<sub>LGW-4</sub>

Model number: SD-RP1002-LGW-O-4  
Frequency(MHz): 800/ 900/ 2100



|                                      |   |
|--------------------------------------|---|
| Frequency bands(MHz):                | (791 - 862) + (880 - 960) + (1920 - 2170)             |
| Coverage:                            | 4X1000 m <sup>2</sup> (open space)                    |
| 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      | 2.2A    |
| Typical power usage        | 26W      |         |

| Mechanical Specification |       |
|--------------------------|-------|
| Length                   | 40cm  |
| Width                    | 19cm  |
| Depth                    | 3.5cm |
| Weight                   | 1.2kg |
| 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.