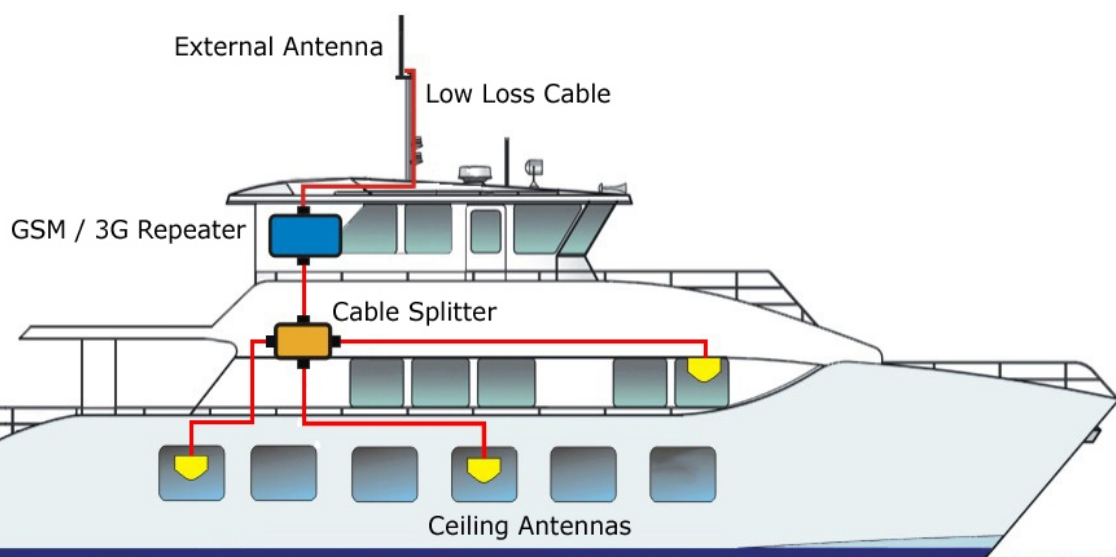


Z-STAR series

Marine grade Mobile Repeaters





Z-STAR series *Marine grade Mobile Repeaters*

How nobile Repeater from Z-STAR series Works.

The convenience of cellular communication is unquestionable for all modern people. The majority of us cannot imagine a single day without a mobile phone or the Internet. However, many of us are forced to suffer from poor quality of mobile service that leads to missed and dropped calls, poor audibility and constant interruptions of the network.

As a rule mobile signal fades away if you are far from the base tower of your mobile operator or due to landscape peculiarities or because of shielding effect of buildings. You might try to find a better spot where signal reception tends to be quite normal, but it's better to solve the problem once and for all.

Z-STAR series presents a Mobile phone Repeater that has proved to be the most effective solution to low mobile signal issues. The Mobile phone Repeater is able to intensify the signal coming from the base station and create reliable mobile environment for communication.

Each Mobile phone Repeater from Z-STAR series comes in a standard kit that includes the following components:

- ❖ Outdoor marine type omnidirectional antenna with low-loss coaxial cable included.
- ❖ Standard low-loss coaxial cable for indoor antenna.
- ❖ Manual with detailed instructions and schemes.
- ❖ Indoor omnidirectional antenna.
- ❖ Z-STAR series Repeater.
- ❖ Power adapter.

The Mobile Repeater catches a low signal from the nearest base tower of your mobile operator. The low mobile signal goes through the Extrnal Antenna and the low-loss coaxial cable to the Mobile Repeater mounted inside your boat, Yacht, Ferry or Vessel. There the equipment creates a "copy" of the received signal, thus intensifying it. And finally, the boosted signal goes through the coaxial cable to the indoor antenna which distributes the strong signal among all mobile devices in your ship.

The installation of the Mobile Repeater can be done manually, though some skills are required. Please, follow the manual to safely install the Mobile Repeater. The installed Mobile Repeater lets you hold your conversations even in the areas that were considered unreachable for a signal before. More than that, as the cell phone gets a stronger signal, the level of its radiation gets lower, while the battery life gets longer. The difference between Mobile Repeaters is in its coverage and capacity.

Please, note that the coverage may differ depending on the Ship. The coverage can be expanded by installing a few Mobile Repeaters in different place of a Ship. Capacity influences the number of cell phones can be used simultaneously. The number varies from 5 to more than 100.

All Z-STAR series Repeater kits work in **full-duplex mode**, which means that the equipment helps you not only receive but also make phone calls, as the device has bidirectional contact with the base tower of your mobile operator. When choosing a Z-STAR Repeater for your ship, Yacht or Ferry, you need to take into account some parameters such as dimensions of the place you want to cover and the frequency your mobile operator works at.

In case you need to receive advice or want to ask us a question, please contact us info@gps-com.gr

MR-3B-3M

3G marine Repeater.

A 3G signal Repeater is a compact and durable device that is used for intensifying low signal coming from the mobile base station and provides you with uninterrupted and reliable 3G connection. Thanks to a 3G Repeater you can enjoy access to mobile Internet, video calls, online chats, mobile TV, social networks – all 3G applications and services in mobile environment. For providing 3G connection mobile operators install special base stations that serve only for data transmission.

MR-3B-3M 3G marine Repeater is created to make your Internet communication more convenient and fast. This device improves all 3G applications including mobile TV, video calls and 3G Internet access in general. MR-3B-3M 3G marine Repeater is designed for locations of small dimensions such cabins etc. The indoor coverage of the device equals 100m² (350ft²).

Technical Characteristics:

Indoor Coverage:	100m ²
Up-link frequency:	1920-1980 MHz.
Down-link frequency:	2110-2170 MHz.
Up-link Gain:	40 dB.
Down-link Gain:	50 dB.
Power supply:	AC 220V/110V.
Power adapter:	DC 9V.
Working Temperature:	-25 to +55 C.
Humidity:	5-95%.
Size (mm):	123 x 86 x 33.
Weight:	2.5 kg.

Package:

- ❖ MR-3B-3M 3G Repeater.
- ❖ Inside antenna.
- ❖ Outside antenna + 9m low loss coaxial cable.
- ❖ Power Supply.
- ❖ User Manual.



AT6100**3G marine Repeater**

If you suffer from poor 3G coverage and frequently miss business opportunities and important information due to low signal, AT6100 3G Repeater is the best solution for you. The AT6100 3G Repeater is effective in middle-sized areas up to 250 m² (850 ft²). As a rule, this model is used in ship's restaurant, bars, gambling hall and other locations of average dimensions.

Technical Characteristics:

Indoor Coverage:	250m ²
Up-link frequency:	1920-1980 MHz
Down-link frequency:	2110-2170 MHz
Up-link Gain:	60 dB
Down-link Gain:	70 dB
Power supply:	AC 220V/110V
Working Temperature:	-25 to +55 C
Humidity:	5-95%
Size (mm):	278 x 204 x 48
Weight:	6.5 kg

Package:

- ❖ AT6100 3G Repeater.
- ❖ Inside antenna + 5m low-loss coaxial cable.
- ❖ Outside antenna + 10m low-loss coaxial cable.
- ❖ User manual.





Z-STAR series Marine grade Mobile Repeaters

AT6200

3G marine Repeater

AT6200 3G marine Repeater is a specific device that helps to establish 3G connection of high quality. With this 3G marine Repeater, you will be able to perform daily Internet activity in spite of poor coverage from your mobile operator. The AT6200 mobile 3G Repeater is based on the advanced power amplification technology and is designed especially for average locations with the dimensions up to 1700 ft² (500m²).

Technical Characteristics:

Indoor Coverage:	500 m ² / 1700 ft ²
Up-link frequency:	1920-1980 MHz
Down-link frequency:	2110-2170 MHz.
Up-link Gain:	60 dB.
Down-link Gain:	70 dB.
Power supply:	AC 220V/110V.
Working Temperature:	-25 to +55 C.
Humidity:	5-95%.
Size (mm):	278 x 204 x48.
Weight:	6.5 kg.

Package:

- ❖ AT6200 3G Repeater
- ❖ Inside antenna + 5m low-loss coaxial cable.
- ❖ Outside antenna + 10m low-loss coaxial cable.
- ❖ User manual.





Z-STAR series Marine grade Mobile Repeaters

AT400

900 MHz mini marine Repeater.

The AT 400 is a GSM repeater that has been designed according to wishes and requirements of modern ships and ferries that suffer from poor cellular signal in small places such as ship's cabin etc. The purpose of this mini GSM repeater is to increase mobile signal in small areas and boost signal reception in boats, yachts up to 80m² / 265 ft².

The mobile phone repeater AT400 is easy to install and use. The equipment comes with all the components for mounting and using the marine GSM repeater. The AT400 model works at the frequency band of 900 MHz and suits for all countries of the European Union.

Technical Characteristics:

Indoor Coverage:	80m ² (265 ft ²)
Up-link frequency:	890-915MHz.
Down-link frequency:	935-960MHz.
Up-link Gain:	30 dB.
Down-link Gain:	40 dB.
Power supply:	AC 220V.
Power adapter:	DC 9V.
Working Temperature:	-25 to+55 C.
Humidity:	5-95%.
Size (mm):	122 x 84 x 33.
Weight:	2 kg.

Package:

- ❖ AT400 GSM repeater.
- ❖ Inside antenna.
- ❖ Outside antenna + 9m low-loss coaxial cable.
- ❖ Power supply.
- ❖ User manual.



AT700

900 MHz marine Repeater.

The AT700 marine Repeater is a powerful device designed specifically for boosting mobile signal coming from the base station. The working frequency band for this Repeater equals 900MHz and suits for most countries of Europe. The AT700 is based on the optimized power amplification technology with high linearity and gain. The device is able to cover large areas up to 800m² / 2700ft²

Technical Characteristics:

Indoor Coverage:	800m ² / 2700ft ²
Up-link frequency:	890-915MHz
Down-link frequency:	935-960MHz
Up-link Gain:	60 dB
Down-link Gain:	70 dB
Power supply:	AC 220V/110V
Working Temperature:	-25 to +55 C
Humidity:	5-95%
Size (mm):	325 x 145 x 83
Weight:	6.5 kg

Package:

- ❖ AT700 GSM Repeater.
- ❖ Inside antenna + 5m low-loss coaxial cable.
- ❖ Outside antenna +10m low-loss coaxial cable.
- ❖ Owner manual.





Z-STAR series Marine grade Mobile Repeaters

AT6200GD

Dual Band Marine Repeater.

Dual Band marine Repeater AT6200GD operates at two different frequencies at the same time - GSM 900MHz and DCS 1800MHz.

Such a device will suit most countries of the world where operators work within these two standard frequency ranges. This dual band GSM mobile repeater is designed for middle-sized and large areas where the quality of mobile signal is very poor.

The AT6200GD Gsm marine Repeater is able to cover about 500m² / 1700 ft², and it is very simple to install and use. For proper usage you don't need any extra accessories or components, because it provides you with everything necessary for a complete repeater system.

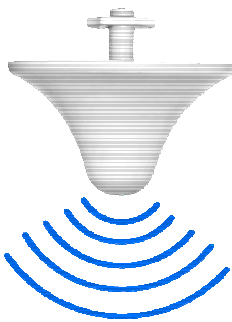
Technical Characteristics:

Indoor Coverage:	500m ² / 1700 ft ²
Up-link frequency:	890-915MHz & 1710-1785MHz
Down-link frequency:	935-960MHz & 1805-1880MHz
Up-link Gain:	60 dB
Down-link Gain:	70 dB
Power supply:	AC 220V/110V
Working Temperature:	-25 to +55 C
Humidity:	5-95%
Size (mm):	359 x 204 x 48
Weight:	12.5 kg

Package:

- ❖ AT-6200GD GSM + DCS Repeater.
- ❖ Inside antenna + 5m low-loss coaxial cable
- ❖ Outside antenna + 18m low-loss coaxial cable.
- ❖ User manual.



Accessories for Your Mobile Repeater**Indoor Ceiling Antenna, model 20.14**

The best solution to increasing the range of signal boosting is the extra antenna. Indoor Ceiling Antenna 20.14 is an omnidirectional indoor antenna for ceiling mounting. It works in a frequency range from 900MHz to 2500 MHz, and is compatible with every Z-STAR mobile repeater. The antenna gain equals 3dBi.

Indoor Panel Antenna, model 20.11

Amplification of the low mobile signal can be easily performed with the help of the indoor panel antenna 20.11. The uniqueness of this antenna consists in its Dual-Band mode that allows amplifying the signal both within 824-960 MHz and 1710-2500 MHz bands. Indoor Panel Antenna 20.11 has a directional design and is supposed to be mounted on the wall. Suits for all Z-STAR mobile Repeaters. The antenna gain equals 3dBi.

Omnidirectional Outdoor Marine Antenna, model Seacell-11

The best solution to increasing the range of signal boosting is the Omnidirectional Outdoor Antenna Seacell-11.

Seacell-11 Antenna 20.14 is an omnidirectional high gain Marine Antenna. It works in a frequency range from 900MHz to 2500 MHz, and is compatible with every Z-STAR mobile repeater. The antenna gain equals 6 dBi.

Two-Way Splitter, QX-008B



A two-way splitter is an irreplaceable accessory for you if your mobile repeater is meant for two or more rooms.

QX-008B can operate at the frequency range of 800-2500MHz providing all the house, office building or store with an improved signal. Compatible with all Z-STAR series mobile repeaters.

Three-Way Splitter, QX-009B



So that to take maximum advantage of your powerful mobile repeater, you will need a splitter that distributes the improved signal to three or more different rooms.

This option is widely used in stores, office buildings and private houses. QX-009B three-way splitter works in 800-1000 MHz and 800-2500 MHz frequency bands.

Four-Way Splitter, QX-010B



The most effective splitter for a large location is a four-way QX-010B that permits distributing the signal to four different directions simultaneously.

The supported frequency range is from 800 MHz to 2500 MHz. All cell phone repeaters from AnyTone can be used with this splitter.

Low-loss coaxial cable for 900-2500 MHz, type 7D-FB 5m



The 7D-FB 5m low-loss coaxial cable is a physical foam coaxial cable that is mainly used for radio communication, broadcasting, network, etc.

The 7D-FB 5m low-loss coaxial cable is compatible with all GSM, DCS, 3G Z-STAR series Mobile Repeaters that work at 900-2500 MHz frequency.

Low-loss coaxial cable for 900-2500 MHz, type 7D-FB 10m



Suitable both for indoor and outdoor application, the Low-loss coaxial cable for 900-2500 MHz, type 7D-FB 10m can be used with any Z-STAR series Repeater.

This cable has a standard 10-meter length and features excellent shielding effectiveness and insulation resistance.

Low-loss coaxial cable for 900-2500 MHz, type 7D-FB 15m



Universal and high-quality, Low-loss coaxial cable for 900-2500 MHz, type 7D-FB 15m.

It suits for mounting Z-STAR series Repeaters that work at 900MHz (GSM), 1800 MHz (DCS) and 2100 MHz (3G).

The cable features 73 kg of tensile strength and 50 ohm of characteristic impedance.



Z-STAR series *Marine grade Mobile Repeaters*

Low-loss coaxial cable for 900-2500 MHz, type 7D-FB 20m



Mainly used in the network of broadcasting and radio communication, the Low-loss coaxial cable for 900-2500 MHz, type 7D-FB 15m is the advanced coaxial cable that can be used with all dual band amplifiers from Z-STAR series.

The cable length equals 20 meters, which is enough for mounting your Repeater set.

Marine GSM /DCS/ 3G Repeaters

Z-STAR series

