

System requirements

Ship integration requirements

Requirements related to the integration of the GSM system onboard a ship are very variable and depend on a few requirements related to e.g. the type of ship, the expected coverage onboard, the required capacity, the need to "hide" the installation from passengers.

In general, the system will require the following:

Space

The system is composed of a main server to be installed onboard as well as one or several GSM BTSs. Physical server size can vary between a 1U to a 4U server, depending on specificities of the installation. GSM BTSs which can be distributed across the ship have the following dimensions: 222mm x 291mm x 63mm. GSM BTS can be either installed visible in areas to be covered, or hidden in closed cabinets, only leaving an antenna visible to passengers/crew members.

Cabling

Cabling between the server and the GSM BTSs is performed using standard Ethernet cabling. Installation can either reuse an existing Ethernet network onboard the ship or add dedicated network elements. When using external antennas, dedicated Radio Frequency cables are required between the BTS and the antenna.

Power

The server should be powered by a standard 250V AC power supply. GSM BTS should be powered through Power over Ethernet (power consumption: 13W, input supply 38-50V DC).

GPS feed

The server has to receive ship's geographical position. This information can either be received from an existing standard NMEA feed or via the installation of a new and dedicated GPS receiver and antenna.

Environmental

All equipment (Server and GSM BTSs) should be installed in areas with temperature ranging from -5°C to +45°C ambient and with humidity ranging from 5% to 90%, non condensing.



“ Lightness and high scalability of the system makes it suitable for installation onboard a complete range of vessels within limited space. ”

Contact

71 Av Louis-Casaï
PO Box 42, 1216 Cointrin
Geneva, Switzerland
tel +41 (0) 22 747 6459
fax +41 (0) 22 747 6852

vip@onair.aero | www.onair.aero



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