

KENTA

The specialist of Radio Frequency Communication systems

GMDSS Server

Complete, Flexible and Compact Solution for any GMDSS Projects

The **GMDSS Server** is a software based solution acting as a central point for any GMDSS network. As a key component of the GMDSS network, the **GMDSS server** is specially designed for 24/24 hours and 7/7 days operations. In order to warranty such robustness, many key points are continuously considered since preliminary design:

- Robust and modular software design;
- Detailed logging of every operation (regular and abnormal);
- Strict checking of every inputs (configuration and Data);
- External User interface based on a Web Server;
- Redundancy and backup considered since first design;

The **GMDSS Server** is based on a robust software-based stream routing matrix able to route both input streams coming for example from receivers or operator consoles and output streams going to transmitters or operator consoles. The routing matrix may be configured such a way to feed Voice / DSC / NAVTEX / NBDP Encoders / Decoders and also operator console with any stream depending on the needs. Symmetrically, the routing matrix is also able to feed back any stream to any transmitters or transceivers.

GMDSS Server

General Specifications

The **GMDSS Server** product is fully integrated inside a 19" - 4U rack with hot-swappable dual power supplies from 100/240 VAC - 50/60Hz, a RAID 1 redundant hard disk system (hot swappable disks on front panel) and the possibility to change the Air Filter on the front panel for an easy maintenance on site. The **GMDSS Server** has basic LED indicators available on the front panel for Fan monitoring, Temperature monitoring, Power indication and hard disk activity. The **GMDSS Server** works under English Windows operating system (license included).

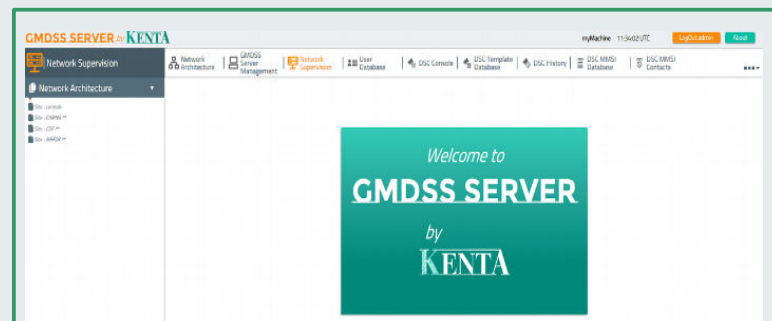
The **GMDSS Server** uses Graphical User Interface for system setup, monitoring and maintenance available through user friendly HTML pages (Web remote control). It provides multiple management tools for:

- Network Architecture Management;
- Network Supervision/Monitoring Management.
- DSC/NAVTEX Database Messages Editor;
- Voice/DSC/NAVTEX Scheduling Management;
- DSC/NAVTEX History Log;
- MMSI Database Management;
- User Database Management;

The **GMDSS Server** can handle several remote transmitting / receiving coast stations in MF, HF or VHF (KENTA products & Third Party) using an IP based network topology. For voice, the traffic through the server uses VoIP (SIP) format following the ED137B standard.



GMDSS Server Hardware



WEB based software suite
Home Page of the GMDSS Server

www.kenta.fr

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Z.A. Kerourvois 2 - Rue Albert Einstein
F29500 Ergué-Gabéric - France

Main Ordering Information:

~KGMDS-SERVER

KENTA GMDSS Server

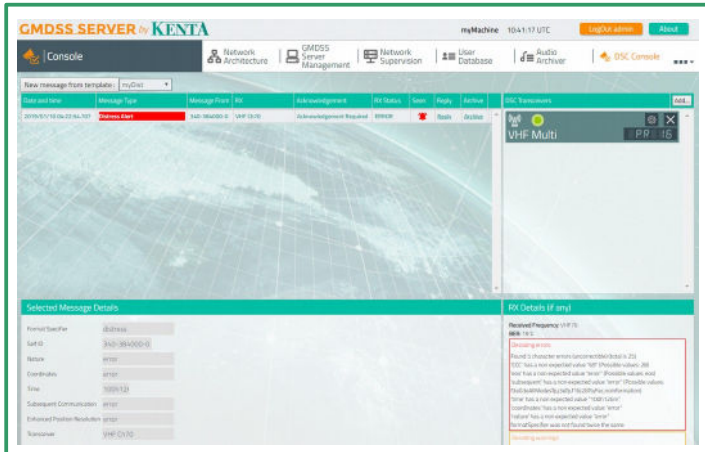
GMDSS Server Product Datasheet
Specifications subject to change without prior notice
Document with no contractual value



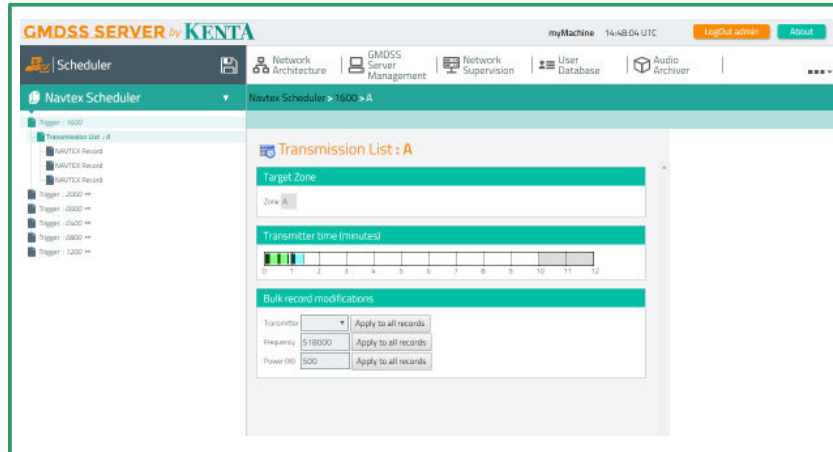
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DSC Console View



NAVTEX Messages Broadcast Scheduler

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The **GMDSS Server** also offers other high level possibilities such as:

- The possibility to have a back up system with easy switch over
- The possibility to synchronize in time the GMDSS Server using NTP (Network Time Protocol) as standard feature. A PCIe optional GPS Synchronization card can be ordered in case no NTP server is available within the network;
- The possibility to use SNMP for a global and centralized remote control of the GMDSS Server and all remote stations using any kind of standard SNMP managers (MIB v2 supplied). Set, Get and Traps commands are all supported;

Technical Specifications

Mechanical:	19" - 4U rack 450mm depth	Processor:	I7-6700
Weight:	15 kg	Memory:	8GByte
Temperature:	Operating : 0°C to +50°C Storage : -20°C to +70°C	Storage:	SSD 512 GByte
Humidity:	10 % - 90% at +50°C	Network:	2 x RJ45 Ethernet 1000/100/10Mb ports
Power Supply:	Single Phase 110-220VAC - 50/60Hz Dual Units hot swappable	Peripherals:	2 x USB2/3 ports on front panel 4 x USB2/3 ports on rear panel
		Operating System:	Windows

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