The SnakeWays Concept

SnakeWays provides state-of-the-art connectivity services to every type of seagoing vessel. At the heart of the SnakeWays Concept are two core elements.

- **SnakeBox** – the shipboard router and application host
- **SnakeCloud** – the shore based management server

The SnakeBox provides the routing and application functionality on board the vessel. SnakeBox manages the interfaces between the shipboard IT and communication networks such as INMARSAT, Iridium, VSAT and GSM. It also hosts the SnakeWays services

SnakeMail & SnakeSwitch

The SnakeBox also acts as a file server, and hosts a database storing emails, vessel configuration, reports, and device management.

Meanwhile on the shore, each customer has his own dedicated virtual server instance, the SnakeCloud. SnakeCloud provides system management, centralized configuration, reporting, and support services to the shipboard SnakeBoxes.

SnakeCloud and SnakeBox work together to form a state-of-the art platform for various SnakeWays services. In the background they exchange data, configuration and status information using very efficient synchronisation protocols. Since these exchanges happen in real time the SnakeWays services on board can always be managed remotely from the shore via SnakeCloud.

From the outset the SnakeWays concept was to design, develop and provide a service for seagoing vessels that minimised installation and configuration costs. With remote configuration via SnakeCloud the SnakeBox is truly "self-install" on board. The real time synchronisation of the SnakeBox and SnakeCloud means that all technical support requirements can be met remotely. Up to and including a total hardware failure of the SnakeBox.

State-of-the-art, synchronised, self-reliant, secure, and cost effective.

The SnakeWays Concept!

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The SnakeBox Hardware

SnakeBox is the shipboard device that provides the platform for the SnakeWays services.

The majority of shipboard "comms boxes" in service today are built on classic network devices using technologies that have been around for a decade and more. **SnakeBox is different.** Based on the latest technology, designed initially for smartphones , the SnakeBox is the smallest, lightest , most cost effective device of its kind on the market today..

Additional hardware modules, such as the 4G/LTE card that gives you **access to GSM networks,** are available to extend SnakeBox functionality. All of these hardware extension modules are installed inside the SnakeBox and require **no external connections** other than antennas if needed.

Configuration and operation of the extensions' features are fully integrated into the SnakeWays user interface, enabling **remote configuration** through SnakeCloud or SnakeBox.

Features

- Industry unique low-power design runs at 2W with no noticeable heat dissipation
- Highly integrated for long lifespan
- Five standard Auto MDI-X Ethernet ports
- Mounting bracket for secure bulkhead or table installation
- Sturdy metal frame case with ABS cover
- Rackmount version upon request
- Integrated Wi-Fi usable as an access point (LAN) or managed interface to connect to an external Wi-Fi network (WAN)
- Integrated Bluetooth
- Minimal configuration effort: a true self-install

Additional hardware modules

- 4G/LTE Mobile network interface with GPS
- 2nd Wi-Fi interface
- Standalone GPS receiver

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Technical specifications

Memory	2G DDR3 SDRAM
Internal SSD	8G eMMC flash
Data storage	SD card 32GB (optional 128 GB, 256 GB or 512 GB)
Ethernet ports	5x Auto MDI-X
CPU	MediaTek MT7623N, Quad-core ARM Cortex-A7
USB port	1 x USB 3.0
Dimensions	170 x 120 x 50 mm
Power supply	External adapter 100-240V AC, 12V 2A DC
Approvals	CE FCC RoHs
Operating temperature	-10°C to 70°C
Country of origin	China