



**OGNIOS**  
**COMMUNICATION SOLUTIONS**  
**FOR MARITIME APPLICATIONS**

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The first choice for on-board IP-Communication

**TRUSTED. COMMUNICATION. ALWAYS.**

ABOUT OGNIOS BY COMMEND

# RELIABLE ONBOARD COMMUNICATION AND INNOVATIVE INTERCOM SOLUTIONS

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## OGNIOS BY COMMEND

THE EXPERT IN THE FIELD OF ON-BOARD IP-COMMUNICATION

Ognios by Commend provides IP-based Intercom systems for the maritime market. Thereby the systems are developed and designed to withstand the harsh conditions at sea.

The Ognios System focuses on the individual needs of our customers. This is why Ognios by Commend stands for:

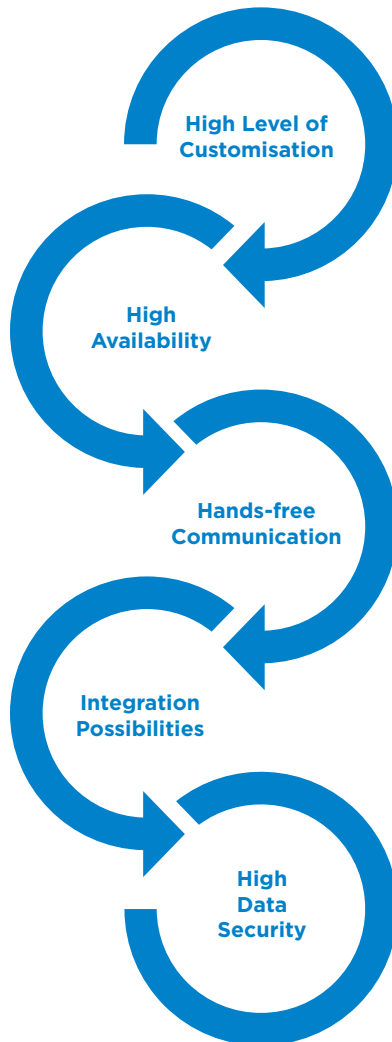
**INNOVATION - INDIVIDUALITY - ELEGANCE - ULTIMATE RELIABILITY**

Ognios Intercom Solutions combine the flexibility in function with the flexibility in design in order to meet your individual needs.

## STRENGTHS

HIGH AUDIO QUALITY

Communication is complicated enough. That's why technical systems should offer solutions rather than pose additional problems. In order to ensure the best possible voice intelligibility, Ognios employs two digital microphones and state-of-the-art audio algorithms to eliminate background noise without losing essential acoustic content.



## WHY OGNIOS?

... the flexibility in design makes sure that the system perfectly fits your surrounding (for instance front-ends in wood, steel, carbon, or even fully integrated - OEM).

... ensures reliable onboard communication (maritime certified products).

... with high volume and speech intelligibility also in noisy surroundings.

... the flexibility in function allows the system to be connected and integrated into other systems (like PAGA, mobile radio, or control panel integration).

... protects from manipulation attempts.

### EASY WEB CONFIGURATION

The stations can be configured by using a browser; a wizard guides you through the pre-configuration. This means a simple installation and adaptation to new requirements in just a few clicks.

### GREAT FLEXIBILITY

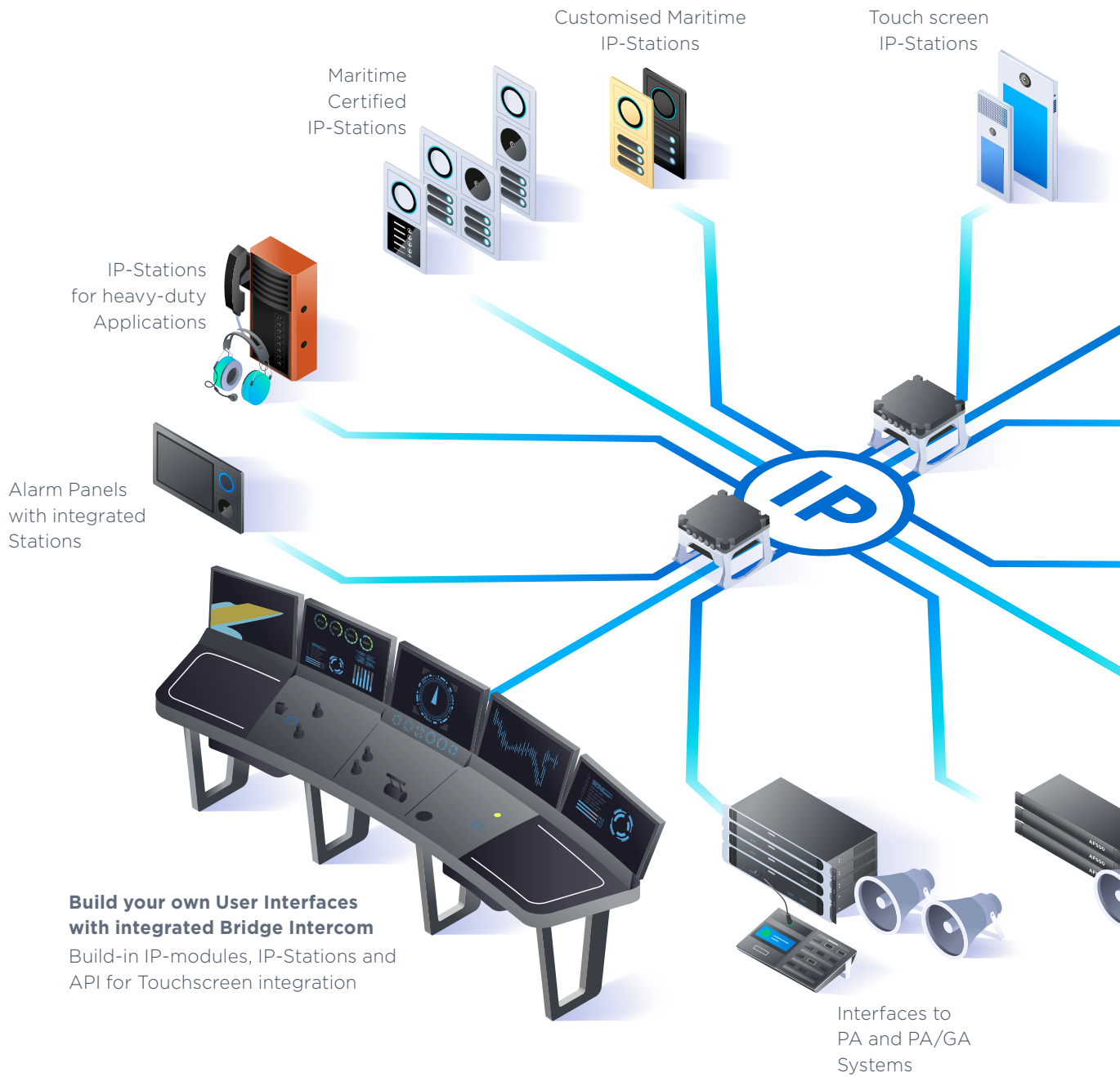
The products of Ognios are assembled in a modular system and can be combined in a wide range of virtually limitless and above all extremely simple ways.

### HIGH DATA SECURITY

The encryption used when transmitting data ensures that the Ognios system is secured against manipulation attempts as well as data theft and is easy to maintain and use through the configuration.

# ONE PLATFORM

## MARITIME IP-COMMUNICATION



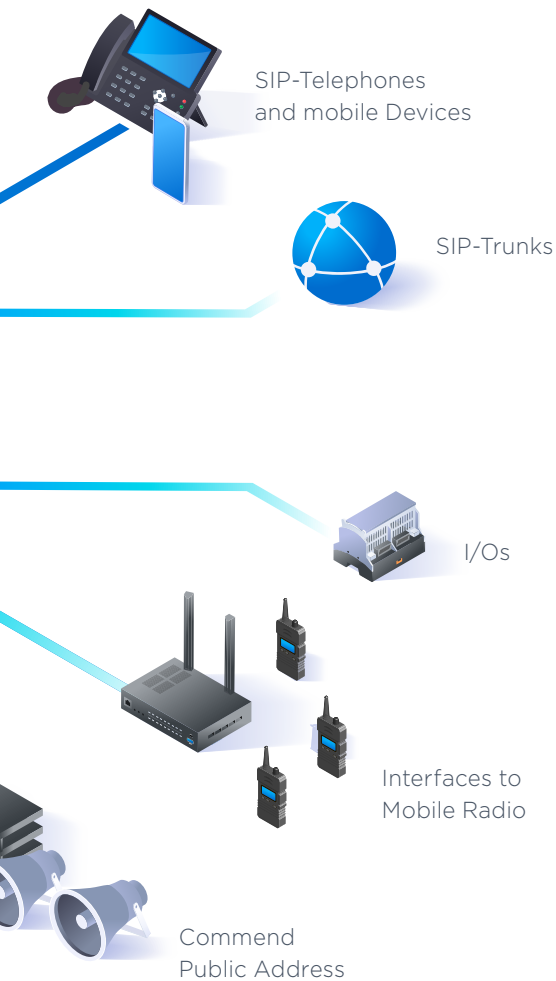
## SECURING COMMUNICATION

The Ognios Server Client System has been developed to ensure secure onboard communication of any ship. Thus, not only server redundancy but also a redundant power supply (PoE and DC) are provided.

In case of an energy short-cut, communication via the Ognios Intercom System is still possible. Another feature that makes the system even more reliable is the redundant Server Client System which allows passengers and crew members to communicate via the Ognios Intercom System even if the primary server collapses.



## BETTER TOGETHER INTEGRATIONS



### SIP TRUNKS

On-board communication systems and the Ognios servers can be connected to other SIP-servers and also the public telephone network via SIP trunks.

### PUBLIC ADDRESS

Extra high-volume capacity and voice speech quality enable users to inform their staff on site. Additional Intercom stations on their premises make two-way communication possible, which substantially enhances operational activities.

Choose from Command PA solutions and integration options of PA and PA/GA systems from leading manufacturers like **PRAESENSA Public Address & Voice Alarm system from Bosch.**

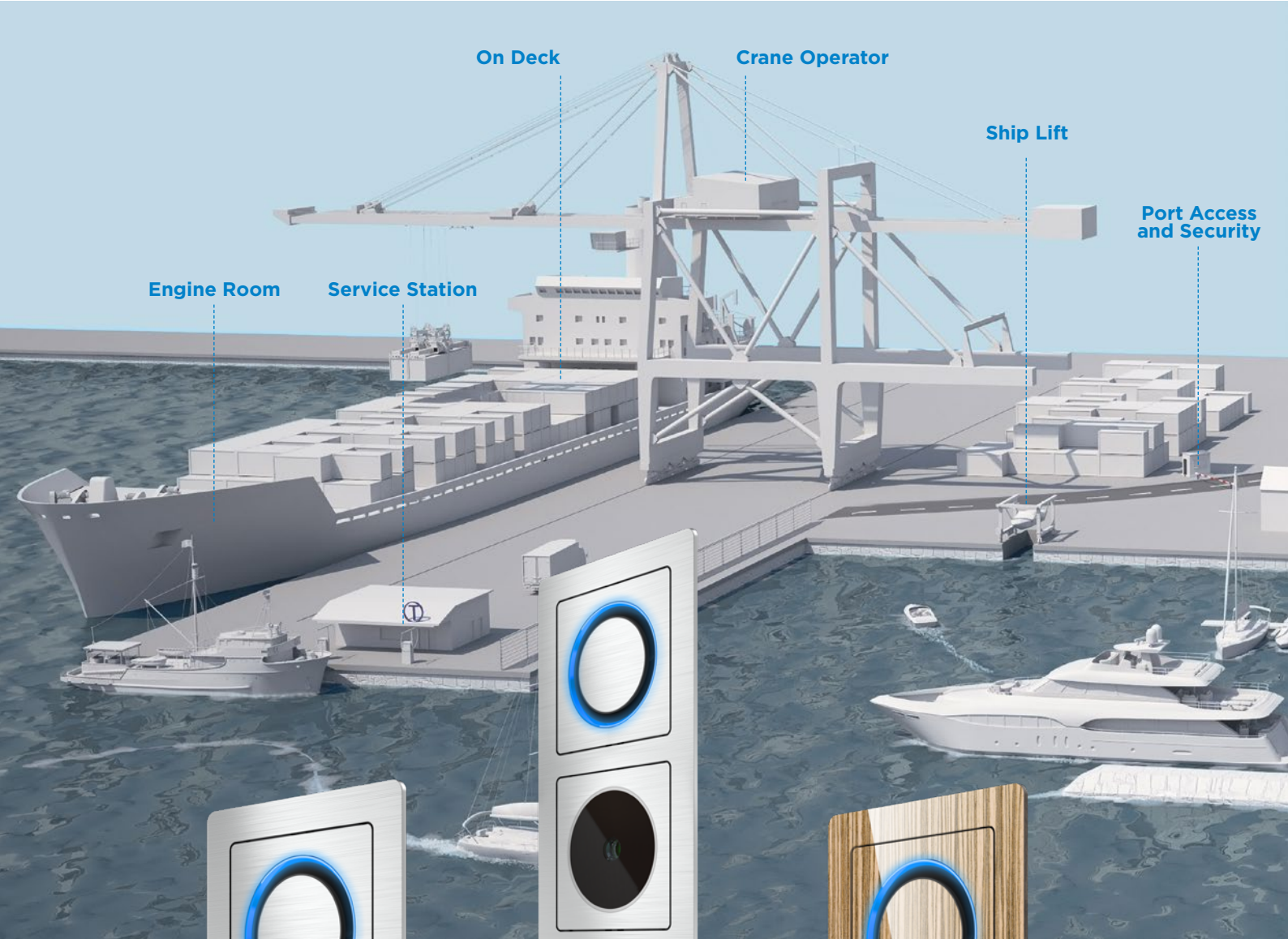
- Space- and weight-saving with PRAESENSA's compact amplifiers and system controller
- Fail-safe public address and voice evacuation solutions with integrated redundancies
- Highest speech intelligibility based on interfacing with IP-based DANTE audio standard
- **Seamless integration of Ognios modules into the bridge as intercom and PA stations**
- Ognios uses standard SIP features for easy but secure audio connections and integration other on-board systems

### MOBILE RADIO

The Ognios system can be connected to the SMC Gateway ICOM mobile radio world using a VE-PG4 RoIP Gateway to enable two way mobile radio communication between these two worlds via SIP-Trunk.

- Make announcements from mobile radio handsets to Intercom stations.
- Enables communication from Intercom stations to the whole mobile radio network.
- Ognios modules can be integrated into the bridge and can be used for communication to Intercom stations and ICOM mobile radio without the need to have a separate mobile radio device.

# MARITIME SOLUTIONS USE CASES



**Modular IP-Stations**  
Combination of different sizes of Intercom stations and different modules to suit any requirements.

### Integrated Bridge Intercom Solutions

From module to GUI integration via API.



Yacht Access

Mobile Clients

Cruise Ship Bridge

Cruise Ship Cabin



**Heavy duty IP-Intercom Stations**  
Masterfully reliable in the roughest of environments.



**Touchscreen IP-Stations**  
Customisable screens according to the applications.

MARITIME SOLUTIONS

# OGNIOS INTERCOM STATIONS CAN BE INTEGRATED IN ANY SURROUNDING



STANDARD VERSION  
V4A STAINLESS STEEL



CUSTOM VERSIONS WITH  
DIFFERENT METALS, WOOD, POLYCARBONATE AND EVEN CARBON





## PRODUCT RANGE

Whether carbon, polished metal, wood or glass – we care for your individual needs. Ognios Intercom Stations can be manufactured in almost any surface finish required. An easy installation for small and large systems with a wide range of functions supports the simplicity of the Ognios Maritime Communication System.

Salt-water-proof material (V4A) in an elegant design confirms outdoor use (IP65), as do the reliability through module monitoring and redundant power supply. A high degree of voice intelligibility in critical areas or loud environments is guaranteed by two digital microphones.

## TECHNOLOGY

In order to provide a state of the art product, not only the design but also the technology behind needs to be a forerunner in this sector. Therefore, the Ognios System is based on IP technology, also known as Voice over IP (VoIP), which offers the possibility to provide high-end maritime Intercom systems and at the same time stay as flexible as possible.

# MODULAR IP-STATION SYSTEM

## COMPOSE YOUR STATION

The modularity of the system allows for great flexibility. Ognios Modules can be easily combined with each other and according to your individual needs.



### RELIABLE, WHATEVER THE WEATHER

Developed to withstand extreme ambient conditions. Protection Type IP 65. Temperature range from -40°C to +70°C.



### DESIGNED TO ENDURE

Fatigue-resistant high-grade materials ensure outstanding longevity and mechanical ruggedness.



### CERTIFIED QUALITY

Designed and developed according to the latest regulations of the IMO.



### LOUD AND CLEAR

Ultimate speech intelligibility thanks to the 2 Microphones with Beam-forming technology together with a high sound pressure level (5 W Amplifier - RMS)



### IP-CONNECTIVITY

Communication over SIP



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE



## SIP MODULES

The SIP Module is the centrepiece of every Ognios Intercom Station. It combines all functions of the numerous modules of an Intercom with state-of-the-art technology. Various functions for monitoring the networked server or connected modules and tamper contact provide security and reliability. Encrypted transmission protects against unauthorised access to the system.



### SIP BASIC EC MA MUN CPU1

SIP-Module to build stations with button modules. 2 inputs for floating contacts. PoE/PoE+/24 VDC/1.5 A



### SIP ADVANCED EC MA MUN CPU2

SIP-Module to build stations with buttons, camera and/or touch screen. 2 inputs for floating contacts, USB port, Audio interface. PoE/PoE+/24 VDC/1.5 A.



### SIP ADVANCED-PLUS EC MA MUN CPU3

SIP-Module with integrated Server and to build stations with buttons, camera and/or touch screen. 4 inputs for floating contacts, 2 relay outputs, USB port, Audio interface. PoE/PoE+/24 VDC/1.5 A.

## STATION MODULES



### EC MA MUN LS10

Loudspeaker Module with LED ring (RGB), which shows system and Intercom status; watertight with poke protection.



### EC MA MUN CAM1

Camera Module with HD quality and wide viewing angle. The camera lens is resistant to tough environmental factors.



### EC MA MUN MICS

Microphone Module with two digital microphones. Beamforming to locate the speaker and to suppress background noise.



### EC MA MUN PBS1

Push Button Module with one call button and illuminated labelling field.



### EC MA MUN PBS2

Push Button Module with two call buttons and illuminated labelling fields.



### EC MA MUN PBS3

Push Button Module with three call buttons and illuminated labelling fields.



### EC MA MUN KB16

Keypad Module with 16 buttons. All buttons are illuminated and enable error-free input even in poor lighting conditions



### EC MA MUN TD03

Touch Screen Module 3,5 inch with background light, key tones, light sensor and proximity sensor.



### OEM Versions

All modules are available as OEM-versions to create custom stations and front panels or to integrate into different systems (e.g. Alarm Panels, Bridges, etc.)

## FRAMES



### EC MA EUN DF2S V4

Stainless steel frame for 2 modules (V4A).



### EC MA EUN DF3S V4

Stainless steel frame for 3 modules (V4A).

## I/O MODULE



### EC MA MUN IO8

Module for 8 inputs 8 relays outputs (switch contacts).

BRIDGE SOLUTIONS

# BUILD YOUR OWN USER INTERFACES WITH INTEGRATED BRIDGE INTERCOM

## BRINGS INTERCOM FUNCTIONS AND MORE TO YOUR FINGERTIPS ON THE SCREEN

An API enables convenient touch screen integration of Intercom and communication functions to keep the user interface clean and tidy on all the master and sub-stations, both on the bridge and off.



## DESIGNED IN THE ALPS MADE FOR THE SEA

Since its founding in 1971, Commend has grown from a small family-owned business into a global leader in Integrated Intercom Systems. Commend Intercom Solutions have proven highly successful in many industry sectors.

AUSTRIA  OBS  
ESSIVE  
ABOUT  
QUAL  
ITY



## ON COURSE FOR INTEGRATED ON-BOARD COMMUNICATION

A ship's bridge is its central command and control centre – its nerve centre, where countless functions and controls converge. To keep everything running smoothly on the bridge, a unified user interface is the proven state of the art. Instead of sailing against the wind with separate controls for all the various systems, it ensures plain sailing with all controls right at the captain's fingertips.

## MODULE INTEGRATION

On-board communication is one of the most crucial functions on this integrated control centre. Ognios by Commend gives you all the tools to ensure 'seaworthy' communication. From Intercom to PA, everything interfaces seamlessly for a superior communication experience, even against background noise from engine, wind or waves. With functions from zone broadcasting to radio support, virtually any on-board communication need is catered for.

**Ognios modules such as loudspeakers, handset, gooseneck microphone and call button modules all blend in smoothly with the ambient design.**

To add even more flexibility to your custom layouts and integrations, Ognios by Commend also supports the Open Bridge Design system

From the development and design of our products to the selection of individual components and our quality assurance processes – everything is dedicated to ensuring a long product life for the end user. The result are products with an excellent ROI thanks to their long life cycle.

Our production facilities in Salzburg (Austria) are the birthplace of the stuff that Intercom dreams are made of. Millions of electronic components are brought together to create products that satisfy our clients' demands and deliver excellent audio quality that makes their users prick up their ears.



## MARITIME SERVER

# ULTIMATE RELIABILITY



### EC MA MUN SSER

The Server Module is the core of the entire Intercom system. Various functions for monitoring the Intercom stations or connected modules and redundancy possibility with a second Server module provide high availability for critical communication.

The web configuration and management offers a high-level of service convenience.

The Server module is suitable for installation in a control panel (top-hat rail mounting). The power is supplied through a PoE, PoE+ or external connection of 24VDC.

A dedicated bus system for connecting up to five I/O Modules is available internally.

#### Dimensions

112 x 107 x 67 mm

#### Inputs

2x

#### Working Temperature Range

-40 °C / +70 °C

#### Power Supply

PoE/PoE+/24VDC/1.5A

#### Protection Type

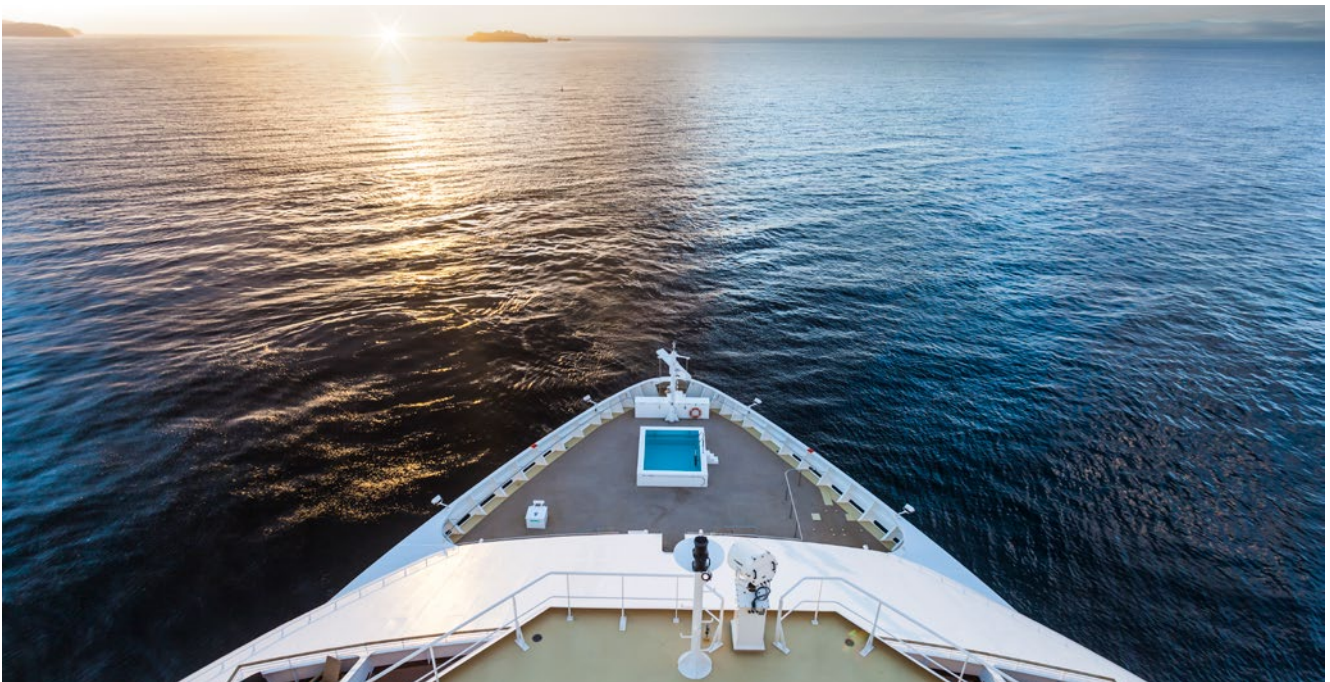
IP 20

#### VoIP-Protocol

SIP

#### Relay-Output

1x Switch Contact



## HEAVY DUTY IP-INTERCOM STATIONS

# MASTERFULLY RELIABLE IN THE ROUGHEST OF ENVIRONMENTS



### Durable double-walled construction made from high-performance polycarbonate

- Corrosion-proof
- Orange signal colour ensures easy visibility for optimum security.
- IP66, IK10



### Robust membrane keypads for heavy-duty applications

Large buttons ensure easy, reliable operation even when wearing protective gloves. What is more, the stations are easy to clean (resistant against chemical detergents) and mechanically hard-wearing.



### IP-Connectivity

Communication over SIP



### Perfect speech intelligibility and extra-high volume

Powerful enough to overcome interfering noise and Intelligent Volume Control (IVC) adapts the volume to ambient noise conditions.



### Connection possibilities

- Separately placed loudspeakers
- Versions for connection of handset or headset



### Redundant power supply

with Fall Back Mode

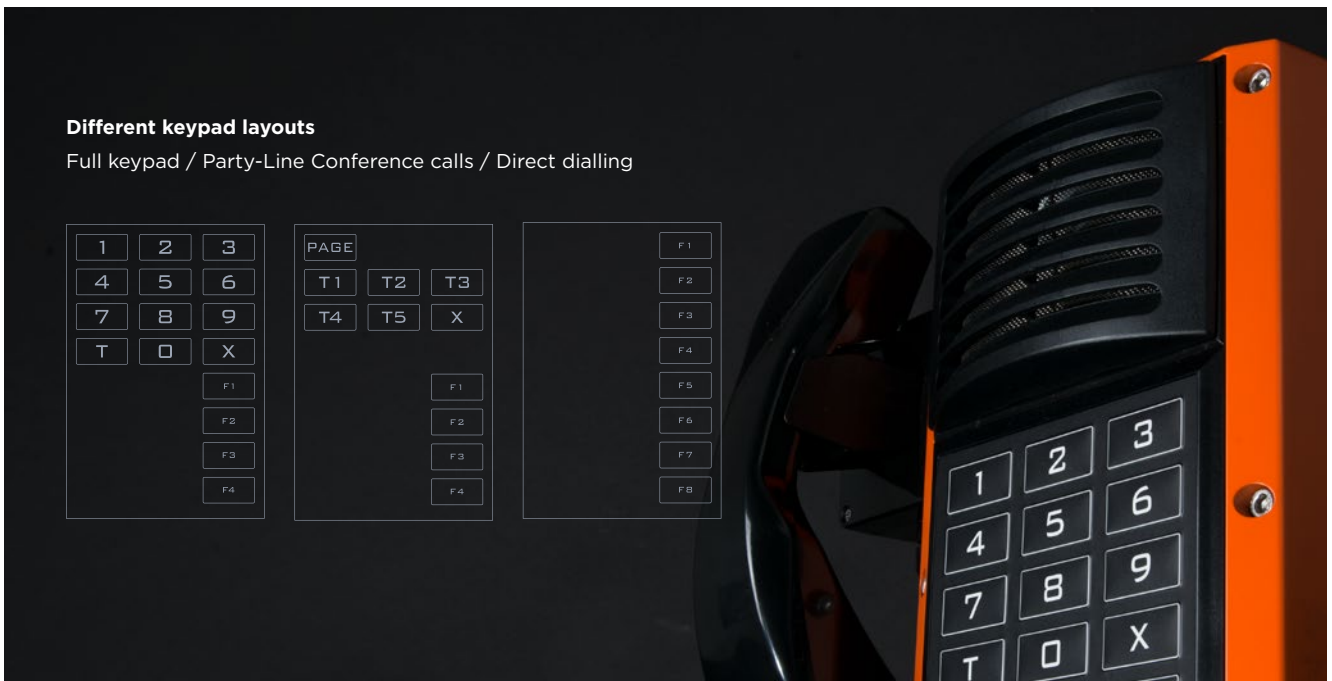


### Inputs/Outputs

Monitoring inputs (e.g. sensors) and controlling outputs (e.g. doors)

### Different keypad layouts

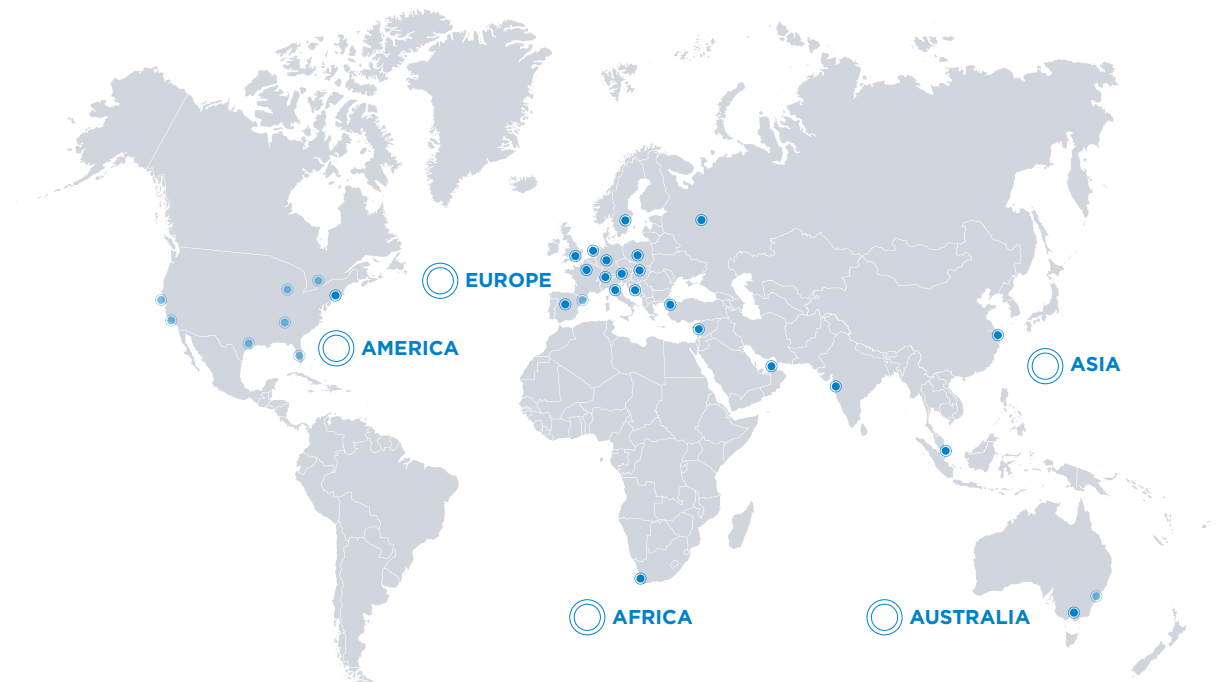
Full keypad / Party-Line Conference calls / Direct dialling





## COMMEND WORLDWIDE

23 sales organisations operating in 62 countries.  
More than 500 employees worldwide.



### TRUSTED. COMMUNICATION. ALWAYS.

Can you imagine a system that millions of people rely on every day, where every word has to count? This is the world of Commend! Secure, reliable communication is our passion. As a global market leader with more than 50 years of experience in speech transmission, we provide not just Intercom and video connections with interfaces to third-party systems, we also provide products that open up new possibilities for integrated solutions. Commend is the preferred choice for hands-free voice communication systems all over the world.

### CYBER SECURITY

Digital processes make life a lot easier. However, with all the benefits, also the dark sides arise. Digitization offers space for cybercrime. As a result, cyber security is constantly in our focus. It determines the way we develop products, which IT technologies we use in our products and how we fulfil our commitment to regular updates, including new IT security fixes, because Privacy and Security by Design is our top priority at Commend. Commend International is ISO 27001 certified – Information Security Management.

Learn more: [trust.commend.com](https://trust.commend.com)



### QUALITY TESTED. RELIABLE. WELL-DESIGNED.

Commend products are developed and manufactured by Commend International in Salzburg, Austria. Our development and manufacturing processes are certified in accordance with EN ISO 9001:2015. Security by Design is our top priority at Commend.

Do you also want to learn more about Maritime Solutions by Commend? Please contact us.