





AlphaConnect Hybrid Compact automatic telephone & talkbalk

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Analog, VoIP & digital



- v Optimized for IMO/SOLAS requirements
- v Approved according to IEC60945
- v Compact and robust design
- v Analog, digital and VoIP based
- v Adaptable and cost efficient in all configurations
- v Dual power supply according to IMO regulations
- v Easy configuration
- v Type approved (DNV-GL/ABS/RMRS)

Compact automatic telephone and talkback system

The AlphaConnect Hybrid system is an integrated communication system designed for internal and external 2-ways communication. The system is optimized for IMO and SOLAS requirements on both small and medium sized vessels. The flexible configuration of the compact AlphaConnect Hybrid provides a cost effective solution for intercom, telephone, public address and loud hailing. The modern architecture offers network connection including cascading, remote service and interface to / from other IP based systems and components.

Telephone system

- v Calling between locations onboard
- v Features typical functions (transfer, priority call)
- v Calls via satellite communication/GSM
- v Logging and billing of calls (optional)

Public address (option)

- v Integrated via unique power amplifier concept
- v Public address (not GA) to separate speaker network

Talk back

- v Hailing to deck positions
- v Handsfree operation on deck
- v Push-to-talk operated from wheelhouse

Strong communication

The AlphaConnect Hybrid provides for onboard conversations between bridge, engine control room, various cabins and offices, workshops, on deck and so on. No matter whether it is dry, wet, noisy or dirty, all locations can be covered by a standard analog telephone or by one of our communication stations with handset, headset or loudhailer. In addition, an IP network (VoIP telephone) and digital talkback system can be configured by simply adding the optional hardware.

Calls from the ship to shore can be conducted from all places on board for example, meaning that crew can have their own privacy when calling home. Calls from shore to ship can be distributed to any location onboard, typically to bridge, captain's cabin or ship's office, but with our system you do not have to be on the bridge to answer your (satellite) call.

Major functions

- v PABX operation
- v Intercom operation
- v Public address
- v Access to external systems and net.
- v Cost effective modular design
- v Flexible dual power supply configuration
- v Flexible numbering plan
- v Call groups
- v Call hunting groups
- v Paging groups
- v Individual paging
- v Intrusion
- v Call transfer
- v Call forwarding
- v Wake up calls
- v Who am I / Identification
- v Automated switchboard
- v Direct inward dialing
- v Conference bridge
- v Configurable access control
- v Redundant power supplies
- v Self-diagnostic functions
- v Field upgradeable hardware and software

DNV·GL

v Programmable priority structure



Standard cabinet configuration

- v 16 analog line (and two port switches for optional VoIP use)
- v 4 trunk lines
- v E&M boad for Public Address interfacing
- v 1 open slot for (optional) use of 4 additional analog or digital lines
- v Dual power supply (AC/AC or AC/DC)
- v 24 lines termination module (connecting cables)



Hybrid hardware & interfaces

In creating a system for the future, we wanted to provide an enormous amount of expansion to suit a broad spectrum of customer needs. Each piece of hardware added provide new features. The AlphaConnect Hybrid has everything to build a professional automatic telephone and talkbalk system completely customized to what you need and what is required onboard.



Digital communication stations



Public Address (option)

The AlphaConnect can distribute Public Address (PA) to all stations with loudspeakers. The system gives the possibility of defining groups with priority levels and can be set up to send a gong signal preceding a spoken message. PA calls are initiated from a telephone and communication station, and do not require special control stations with goose neck microphones.

Loudspeaker

Telephones

The AlphaConnect Hybrid is using analog and VoIP telephones or digital talkbalk systems for locations such as cabins or offices, typically dry, and places with room temperature and little to no noise.

Analog telephone



AlphaPhone 100AS

- V Large display
- v Phonebook
- Hands-free function
- Cabin station
- v Wall mounting



AlphaPhone 500

- V Simple design
- v Rugged design
- v Cabin station
- v Magnetized handset
- v Wall mounting

Voice over IP (VoIP) telephone



SNOM7100

- v Backlit graphical display, 4 lines
- v Wall mounting
- v Hands-free talking (speakerphone)
- v Power over Ethernet (PoE) IEEE 802.3af, Class 1
- v Electronic Hook Switch (EHS) support for wireless headsets
- v Intercom operation

Analog communication stations

Typically, for onboard locations such as the bridge, engine control and steering gear room, a simple telephone will not do. Our analog communication stations share the same mechanical foundation, PCB base design, connector pins and keyboard layout, allowing for straightforward system interchanging and easy to learn and adopt by the crew as operating these advanced telephones are always alike.



Simple and water tight talk back communication system, for on deck mooring stations.



Water tight and salt mist resistant industrial telephone, for engine spaces and on deck.

Full featured flush

mount station with

display, for bridge and

engine control room.

P411



Full featured water tight station with display, for engine spaces and on deck.

| | P211 | P220 | P411 | P421 |
|----------------------|------|------|-------|------|
| Handset connection | x | V | V | V |
| Headset connection | V | V | V | V |
| Call relay | V | V | V | V |
| External speaker | V | х | V | V |
| External microphone | x | х | V | V |
| Display | x | х | V | V |
| Hands-free operation | х | х | V | V |
| Keys | 3 | 15 | 21 | 21 |
| Speed dial | x | х | V | V |
| IP class | 65 | 65 | 22 | 65 |
| Mounting style | Wall | Wall | Flush | Wall |





Handsets

The AlphaConnect is using analog telephones for locations such as cabins or offices, typically dry and places with room temperature and little to no noise. Optional handsets available for P220, P411 and P421. Both as a flush mounted versions (P411) and a version to be mounted to the telephone (P220 and P421). Also available in IP66.

Headsets

The AlphaConnect is using analog telephones for locations such as cabins or offices, typically dry and places with room temperature. A noise-cancelling headset is available for the AlphaPhone 500, P211, P220, P411 and P421.





Tech specs

Hardware

Compact and robust wall cabinet 24 / 48 / 72 line or 24 line + 24 VoIP capacity Optional 250W Public Address (PA) amplifier 1671 Flexible line card selection Scalable and distributable capacity Modular with standardized interfaces

Dual power supply (AC/AC or AC/DC) Energy efficient Fault tolerant interconnection Quick and easy field replacement **Optional Billing Unit 6202** VoIP, intercom, PA and POTS (Plain old telephone service) interoperability



System 24V DC and/or 230VAC power supply Digital, analog and VoIP communication Small cabinet size (585x615x470mm WxHxD)

PA function optional

Maximum capacity standard sized cabinet 72 analog telephone lines 4 trunk lines 1 PA interface 24 VoIP lines (plus external VoIP switches optional) Digital intercom within total of 72 lines

Maximum capacity 19"rack No limits





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