GICOM

Marine Communication Solutions



Gicom Integrated Solutions

Gicom Main Processor Unit

LOOP A

- POWER AMPLIFIERS
- IN/OUT MODULE

LOOP A

- POWER SUPPLY MODULE



Some technical details on Gicom system

- Reduced space and size.
- Reduced weight.
- Reduced power consumption.
- On most of Merchant ships and Rigs all devices for a complete redundant system suitable to manage Public Address and General / Fire Alarm - Talk Back Automatic Telephones - Radio/TV – Music sources and distribution - Audio/Visual devices for alarm purpose are fitted inside one single rack.
- Class D audio amplifiers – 2 channels – 100+100W digital V/meter – 100V constant line output.
- Fully programmable and fully redundant controller.
- Redundant Alarm Tone Generator with practically no limit to the number of audio signals that can be generated.
- Digital Memory Bank for Emergency Announcements and Routine announcements.

LOOP B

- POWER AMPLIFIERS
- IN/OUT MODULE

LOOP B

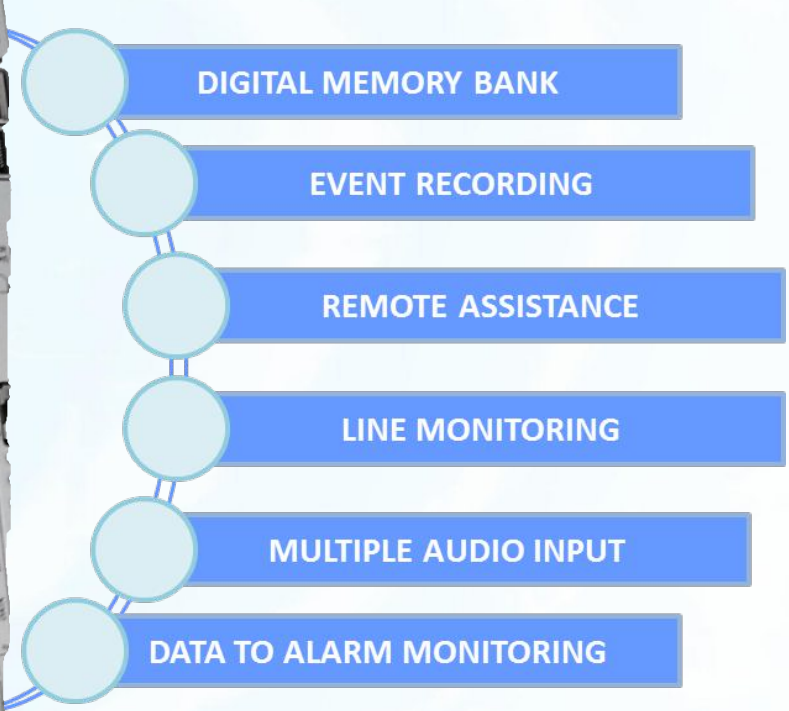
- POWER SUPPLY MODULE

Functions and Interfaces



Some technical details on Gicom system

- Full self-test with data shown on LCD monitor.
- Automatic muting of Entertainments in case of Alarms.
- Interface with any kind of external media of communication.
- Dual power supply 220Vac MSB / 220Vac ESB or 220Vac/24VDC
- Possibility to provide the system with its own UPS.
- Easy system implementation with no hardware modification.
- Optional functions are available upon customer specific requirements:
- Assistance – Service and software updating from remote.
- Events recording facility on PA-GA.
- Traffic logging on PABX.
- VoIP on PABX.
- Other upon customer needs.



Tailored solutions for any kind and size of vessel

More functions now available

- PA-GA: Multiple Remote control panels can be used at the same time.
- PA-GA: Remote Control panels are made with touch screen facility.
- PA-GA: System monitoring complete with touch screen.
- PA-GA: Full control of Public Address lines with alarm status for:
  - overload.
  - line open.
  - short circuit.
  - open line.
  - line to ground.
  - variation of line impedance.
- PA-GA: class D amplifiers.
- PA-GA: remotely programmable.
- Talk Back: the system allow the conference facility.
- Audio/Visual columns run on RS485 (two wires only + power supply).
- Audio/Visual columns: complete with built-in lamps test button and siren test button.
- Audio/Visual Columns: Dead Man button built-in in each AVC available upon request.
- Audio/Visual columns: addressable telephone incoming call to each Audio/Visual columns.
- Audio/Visual columns: Built-in sirens can act as loudspeaker.
- Master Clock: with touch screen facility.




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Gicom system configuration and peripheral devices

A glance to Gicom system

Gicom can provide the full package of Internal Communication including data, video, audio signal treatment. The system is tailored to each project and its configuration may vary depending on technical specification received, vessel type and size, special Yard / Owner requirements.

The final system configuration may therefore include all or part of the below sections:

- Public Address / General Alarm
- Intercom
- Audio/Visual columns for Engine Room
- Automatic Telephones (Analog–VoIP–Hybrid Analog and VoIP)
- S.P.T.
- Hospital call
- LAN system
- Music generation and distribution through P.A.
- Talk Back
- Loudhailer
- Master and Slave clocks
- CCTV
- Intrinsically Safe S.P.T. (ATEX certified)
- Refrigerated Chamber Alarm
- Radio/TV/TVSAT
- Electronic Bell and Gong





Hospital
System Call



Refrigerated
Chamber Alarm

Public Address
General Alarm
Talk Back





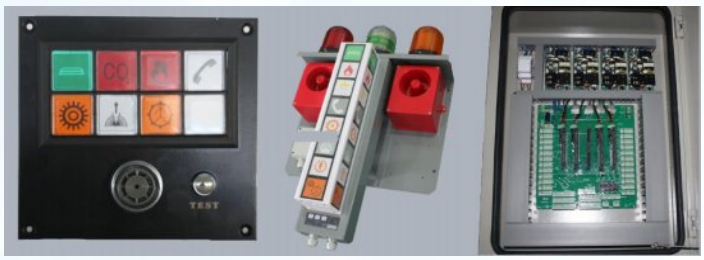
Hazardous Areas



Automatic &
SPT Telephone



AV Columns

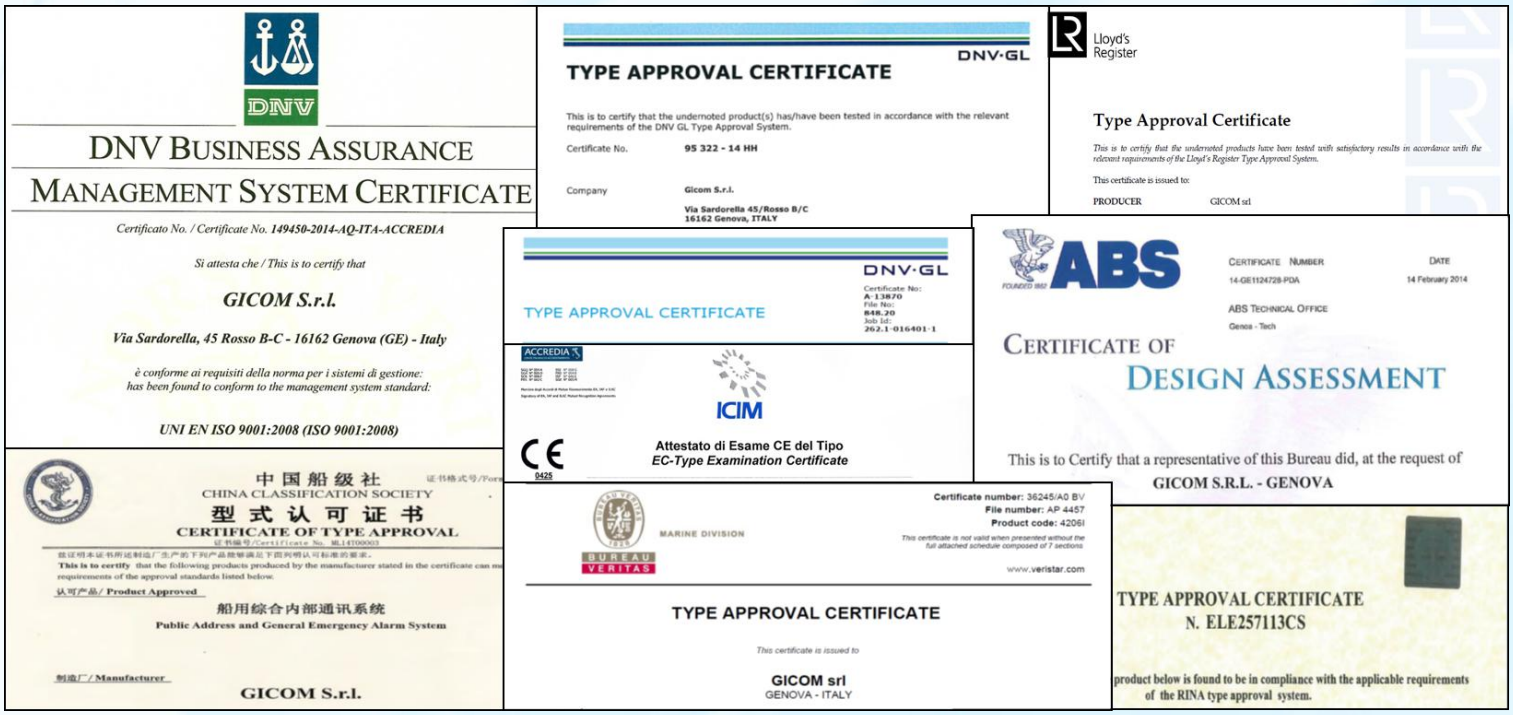


Master and
Slave Clocks



Certificate and Type Approval

Internal Communication System certainly belong to primary safety system on board, subject to inspection on board not only during the building stage but also at the time ships are in service.
Maritime Authorities – Classification Societies – Coast Guard – Port Authorities are engaged in periodic tests aimed to verify the compliance with IMO/SOLAS Regulations in force of any safety system on board.
With particular reference to the Internal Communication System aspect such as S.P.L. (Sound Pressure Level), system's redundancy criteria, lines duplication, automatic back up facility and other mandatory functions are subject to continuous verification.
For all the above reasons Gicom decided since the beginning to avoid the " case by case " approval procedure, which in practice is limited to a drawings analysis only without any specific test on the electrical, mechanical and environmental characteristics of the devices, and started therefore a complex and severe process toward the main Classification Societies to get Type Approval Certificates.
Type Approval is the only effective way to verify the reliability of each device, component, software then install on board, being the test analysis not left under the control of the maker itself, but instead carried out under the control and management of the Classification Societies officials.



Test carried out in order to get Type Approval Certificates

- Conducted emission
- Immunity to conducted radio interferences
- Immunity to conducted low frequencies interferences
- Immunity to slow high energy transients (Surge)
- Immunity to electrostatic discharge.
- High voltage test
- Humidity test
- Salt Mist
- Compass safe distance measurement
- Radiated emissions
- Immunity to radiated radio frequencies field
- Immunity to fast low energy transients (Burst)
- Power supply failure test
- Insulation resistance test.
- Low temperature test.
- Dry Heat test.
- Enclosure test.
- Vibration on three axis.

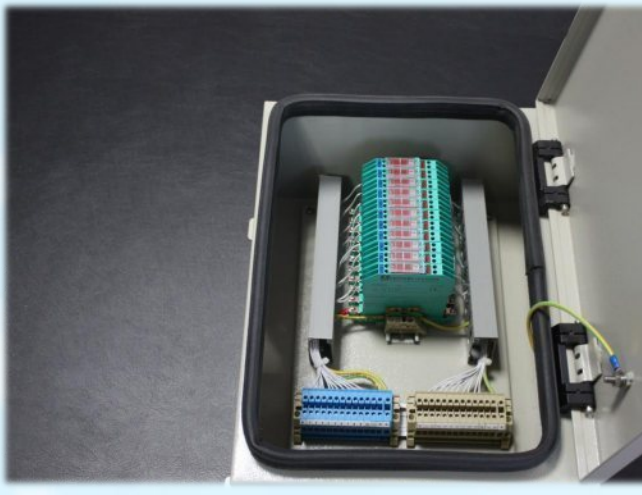


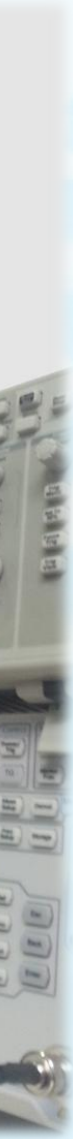
Research & Development

We are constantly developing customer-oriented products to satisfy Yards/Owner specific requirements.
In the field of communication new technologies, functions, performances are demanded at any time from our customers in order to optimize the operating conditions of their fleet, increase the safety of the crew and make more comfortable the daily life on board.
The Gicom laboratories are equipped with sophisticated instruments and high qualified personnel.
Our structure allow development of both new hardware and new software based on market requirements.
Before to be officially launched on the market, each new device is submitted to sever tests to check its reliability and compliance with technical specification parameters, Classification Society rules (if any) and customer expectation.
Gicom also evaluate the possibility to start the Type Approval procedure for new devices, depending on type of system and relevant Classification Society requirements.
We are always at customer disposal to study specific requirement on demand they may have.













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AGENTS AND PARTNERS



All systems covered by type approval certificates from main classification societies

Company operating under ISO 9001:2008 standard quality plan