

HMC-ICP™ - INTEGRATED COMMUNICATIONS PLATFORM



End-to-End Digital Public Address / General Alarm System

This ABS type-approved system is designed to accommodate all of a vessel's communication requirements within a single solution. In order to meet the divergent needs of the shipyard, the owner and the architect, the HMC-ICP was designed with the following features:

- Shared cable infrastructure
- Distribution at all levels of the design
- Minimum cable types (2) utilizing only readily available cable
- Adherence to standards
- Flexibility and expandability
- Integration
- Redundancy
- Ease of operation & maintenance

PUBLIC ADDRESS / GENERAL ALARM FEATURES:

- Solid state controller
- Addressable endpoints
- Self-amplified speakers
- Self-monitoring speakers
- Real-time system fault monitoring
- Configurable paging groups / announcing lists
- Priority access levels
- Paging to single speaker
- Digitized alarm
- Pre-recorded announcing
- Touchscreen control
- Self-powered endpoints
- Simultaneous paging
- Self-adjusting ambient speakers
- Command override / system modes
- Remote access

AUTOMATIC DIAL TELEPHONE SWITCHBOARD (PBX) FEATURES:

- Full IP system
- Node expandable
- Software configurable
- Trunk / CO support
- Support for analog equipment
- Auto-attendant / auto routing
- Remote access
- Attendant station
- Station permissions
- Public access / general alarm
- Voice mail
- Accounting software

NODES, CONTROLLERS AND ENDPOINTS

Unlike legacy systems, which are not very accommodating due to the large racks, heavy amplifiers, multi-pair cabling, wires and circuit boards, HMC-ICP is a lightweight, fully customizable, state-of-the-art IP-based system.

The system's three main components are nodes, controllers and endpoints. Endpoints are connected to the nearest node. Nodes are networked together in a redundant fashion. Controllers are placed in any node as required. Distribution occurs at all levels of the design for maximum flexibility and expandability.

CABLING (2 Cable Types)

- To end point
 - Shielded twisted pair
 - TIA/EIA 568B
 - CAT5E
- Node to node
 - Multimode fiber optic

PA/GA

- Multi-channel paging
- Playable files for alarm and signals
- Adhering to CFR 46 / IEEE / SOLAS / ABS / USCG regulations
- Software configurable
 - PA Zones
 - Priorities
 - Alarms
- System monitoring and indication
- Standard connectors
- End-to-end digital
- Command override / system modes

PBX

- SIP based
- VoIP PBX can support up to 10,000 users
- Voice mail
- Much smaller than traditional PBX systems
- Unlimited number of PSTN gateways and trunk lines
- Unlimited number of simultaneous calls
- Optional fully redundant call control system
- Browser based configuration and management
- Centralized management of all phone parameters
- Centralized backup and restore of all phone configurations
- Unlimited number of auto-attendants

WIRELESS (802.11 & DECT)

- Centralized web management
- Automatic wireless signal strength
- End-to-end security
 - Rogue detection
 - Encryption
- Scales easily

ENTERTAINMENT AUDIO & CCTV

- Fully scalable and distributed
- Desktop or rack mount options available
- Selective multichannel entertainment audio capability
- Individual or group volume control for entertainment speakers
- Seamless integration of IP cameras for CCTV
- Turnkey video and recording solution for CCTV