



SHIP'S INTEGRATED COMMUNICATIONS SYSTEM (SHINCOM) 3100.

TOTAL SHIP COMMUNICATIONS.

The SHINCOM 3100 all-digital Secure Voice System (SVS) integrates tactical and administrative, as well as voice and data communications. SHINCOM interfaces, controls and manages every aspect of internal and external communications. The system architecture ensures complete end-to-end Red/Black separation through all communication paths meeting TEMPEST and information assurance requirements. Multiple levels of built-in redundancy and internal battery back-up ensure continuity of communications in very adverse conditions.

The SHINCOM 3100 terminal equipment enhances the abilities of both the commanders and the operators to communicate on multiple channels simultaneously without affecting their workload. These channels incorporate Two Ears - Four Voices® 3D spatial audio technology with radio noise reduction (RNR) and microphone noise reduction (MNR) algorithms that further minimize fatigue over long watches.

SHINCOM provides the communications architecture for new-built platforms and is also backward compatible with legacy cable plants. For existing systems, SHINCOM can provide improved capability and capacity. It can also replace current legacy secure voice systems, tactical intercom systems and ship's service telephone systems.



SHINCOM 3100

HIGHLIGHTS

CENTRAL SWITCHING UNIT

- TCP/IP end-to-end digital system
- Highly scalable up to hundreds of connections
- Extensive command and control communication features
- EXCOMM radio / cypher patching
- MLPP plus programmable accesses, restrictions and overrides
- COTS open standards architecture
- Redundant and independent non-blocking 4096 channel Red and 4096 channel Black switching
- Internal high-capacity plain and secure conference bridges up to 4096 channels each (2048 conferences)
- VOIP voice switching (SIP with MLPP)
- Enhanced PBX calling features
- Redundant, hot-swapping architecture
- Integrated VOIP and ISDN
- VPX integrated backplane

E1 TERMINALS

- Up to 8 active and 8 on-hold channels
- All digital, extensive digital signal processing
- Field-proven, rugged, drip-proof
- Hybrid touch screen and key technology
- Centralized graphics displays
- Auto-muting secure / non-secure
- Visual and audio Press-to-Talk (PTT) / security status indication
- Supports both internal and / or external speakers

OAM CONSOLE

- Graphical User Interface for system configuration
- CommPlan and data base setup and control



TECHNICAL DATA

CENTRAL SWITCHING UNIT

Multiple switch configurations with S-GIGE network topology	single, split or fully redundant
Size	27.3 W, 71.9 H, 35.3 D inches
Control, concentrator and interface node(s)	Up to 10
Weight	899 lbs.
Input power (node's battery backup can be bridged together for extended battery life: Control node with 30 AH battery backup	115 VAC, 60 Hz, single phase or 440 3 phase
Concentrator node with 30 AH battery backup	115 VAC, 60 Hz, single phase or 440 3 phase
Heat dissipation (batteries fully charged)	typical 450 W

E1 (2.048 MBPS) DIGITAL TERMINAL EQUIPMENT

Fully redundant "dual-homed" independent data and power inputs	
Size	form factor compatible with existing consoles
Weight	7-14 lbs. dependent upon form factor
Input power	powered from switch (concentrator node)
Heat dissipation	6-10W depending on terminal

ANCILLARIES

A range of headsets, handsets, hand and foot key switches (including four-channel extension cables and remote speakers are available)

STANDARDS

Network	TCP/IP, UDP, SNMP, XML, HSR-PRP
Communications	VoIP (H.323 and SIP), Q-921, Q-931, Q-932, 5ESS * T1/E1, BRI
Serial	1000/100/10 Base T Ethernet, T1/E1-PRI, BRI, USB, RS-232, RS-422, RS-485, RS-530
Video	surveillance and conferencing - (MPEG1, MPEG2, MPEG4) compression standards H.261, H.263, H.264

QUALIFICATIONS

Environmental	901D Grade A shock, vibration, temperature, humidity, drip-proof, noise, fungus, motion and attitude
Power	MIL-STD-1399 Section 300A, transients, spikes, emergency conditions and grounding
EMC	461E - CE101 and CE102, CS101, CS114 and CS116, RE101 and RE102, RS101 and RS103
TEMPEST certified	Red/Black ATO (EAL4)

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