KAREL

THE DS200A BATTLE SHIP'S TELEPHONE EXCHANGE IS A DURABLE, FLEXIBLE, HIGH QUALITY, RELIABLE AND TASK-SUITABLE NEXT GENERATION COMMUNICATION SOLUTION THAT PROVIDES, FACILITATES AND DEVELOPS THE COMMUNICATION ABILITIES OF NAVAL SHIPS IN ANY CHALLENGING SITUATION.

GENERAL FEATURES

The DS200A is a next-generation modular military communication system has more than 100 programmable functions. DS200A can be remotely programmed when required for repair and maintenance and is sturdily and durably built.

The DS200A is an exchange comprised of 2 main blocks, containing a wide variety of different interface structures. It is 19" rack compatible and custom designed for use on battle ships.
The DS200A delivers state of the art, flexible, reliable, suitable and economic communication solutions via its extensive multipurpose properties and usage roles.

The DS200A battle ship's telephone exchange features a distributed processor structure. Under this structure, each module has its own processor so that module based processes can be completed with greatly enhanced speed and reliability. Under this design, the central processor that controls the other module processes can itself be backed up by a second central processor, when desired, to maximize system reliability.

HYBRID STRUCTURE

The DS200A allows for the management and control of audio, video and data traffic from one single source. It combines many otherwise separate product functions, including PBX, IP PBX and an IP Gateway, into one single device. It delivers mobile communication solutions, network applications and computer-telephone integration.

The DS200A combines analogue, digital, IP subscriber and external line interfaces into one single system, operating all of these interfaces in a truly integrated manner. Due to its advanced substructure, the system itself already supports the easy integration of future technologies.

IP TECHNOLOGY

This system's subscribers obtain uninterrupted communication, anywhere, anytime, via IP communication applications and access units featuring IP communication capabilities such as IP phones, softphones, WiFi phones and smart phones that include VoIP support.

THE ROUTING NETWORK TOPOLOGY

Multiple DS200A exchanges can act as one single exchange, over any network connection with QSIG support, to execute various applications. In its network connections, common network topologies such as star, chain, or a combination of both can be utilized. With any such network structure, a "single numbering plan" can be created under which subscribers can directly call each other via unnoticed high capacity routing.

REMOTE ACCESS

Access to any DS200A ship exchange can be undertaken remotely over an IP-based network for administration, programming or maintenance purposes. Call records can be collected together at one single location due to the DS200A's IP-based network substructure. A standard modem can be used whenever an IP-based network is not available. By utilizing remote access, the overall technical support workload, the time spent installing and all such related costs decrease.

BACKUP

In any DS200A system, hot redundancy of both the main processor and the switching matrix can be activated. This means that current calls will continued uninterrupted, in the case of a primary processor fault. System parameters are always protected. With the system's power supply backup, all processes continue without interruption at all times, full automatic process control remaining operational.

CAPACITY

- TDM/PCM based IP-compatible communication system
- Hot redundant 1+1 CPU card and switching card
- 112 analogue subscribers, 8 analogue extensions
- 60 PRI ISDN external lines - 4 E&M lines
- 7 channel alarm/announce connection
- 1 channel VHF radio connection
- 1 console connection & 1 ethernet connection
- 1 expansion slot for additional communication modules

BODY

- 19" architecture comprised of 2 main blocks
- A "Communication Block" for communication needs
- A "Supply Block" for power supply needs
- A card slot on the communication block with 12 standard output connectors
- A 37 pin circular military connection for communication block card slots
- A 5 pin circular connection for communication block ethernet outputs and console connection
- 2 AC/DC & 2 DC/DC converter modules are included in the supply block
- The supply block features a 110 VAC main input and an 28 VDC emergency input

USER INTERFACE

- User friendly system management interface (PC based)
- Analogue / ISDN sets with IP, IP-DECT and WiFi terminal connectivity
- Net-Console software for PC operators

IP SPECIFICATIONS

- Embedded IP Capabilities
- Licensing Options for SIP Enabled IP Trunks & Extensions and H.323 Enabled IP Trunks
- Optional Media Gateway
- Support for Video Calls
- Peer-to-Peer Interoperability
- Encryption for Secure Communication

EXTENSION AND CMDR SERVICES

- Account Coded Call – Forced or Unforced
- Auto Dial
- Background Music
- Busy Extension Signalling
- Automatic Call Back
- Call Forwarding, Call Hold, Call Park / Retrieve
- Call Pick-up, Call Transfer
- Camp On
- Chief Secretary
- Three Way /Multi Party Conference
- Do not Disturb
- Door Opener, Door Phone Call
- Emergency Extension
- Follow Me (Standart & Remote)
- Headset User
- Hot Line
- Intrusion
- Last Number Redial
- Line Access- Auto/Selective, Line Flashing
- Line to Line Connection ,Line Drop, Line Transfer
- Marked Call
- Parallel Extensions
- Password Lock/ Dialing
- Reminder Service
- Remote Line Access
- Speed Dial
- Voice Level Adjusting
- Night Guard Service
- Caller ID (Standart & by Name for Extension)
- Wake up Service
- Call Information Listing, Call Report Level
- Metering Pulse Detection, Pulse Price & Time / Tariff Tables
- Polarity Reversal Detection

COMPATIBLE STANDARDS

Analog ports: TBR21, TBR38, EN 300 019
E1. DSS1, ITU.T I411, CTR04, ITU.T G.703, Q.931, ETS 300 102
ISDN BRI: ITU.T I411, CTR03, Q931, ETS 300 102
Ethernet: IEEE 802.3, IEEE 802.1
EMC/EMI: MIL STD- 461D
Environment & Safety: JSS 55555 L2B, MIL STD- 810F, IEC 950
Fiber Optics: IEC 60874

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