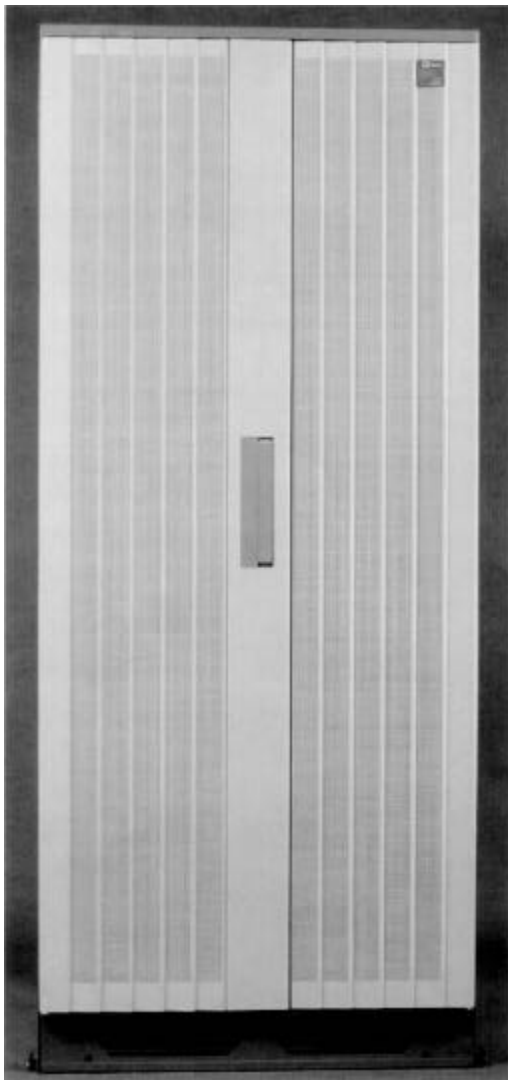




Digital Conferencing and Switching System 240e-ns (DCSS 240e-ns)

We make the things that make communications work™



The Dynalec Digital Conferencing and Switching System 240e-ns is a micro-processor-controlled bridge that provides a flexible, highly reliable tool for your teleconferencing needs.

A full-featured, dual-processor member of Dynalec's DCSS product family, the DCSS 240e-ns can be sized for your requirements. You can start with a single system equipped with 1 DS1 (T1) circuit and grow incrementally to 10 DS1 (T1) circuits.

The DCSS 240e-ns will accommodate multiple, simultaneous conferences with unsurpassed performance.

Superior voice quality for your conference calls

The DCSS 240e-ns provides voice quality equal to or better than a standard two-party call. In addition, it eliminates many of the problems typically associated with teleconferencing:

- DCSS 240e-ns is a full duplex bridge that allows more

than one person to talk at once and be heard by all members of the conference.

This gives your call a more natural feel and allows you to speak and be heard without waiting for a pause in conversation.

- Automatic gain control on each port holds voice levels regardless of the number of conferees. The voice of participants located close to the bridge will not be uncomfortably loud, and conferees connected by long distance will not have to shout to be heard.

- Voice clipping is eliminated with a high-speed voice-gating algorithm that detects voice in less than 20 milliseconds.

- Noise buildup is eliminated by allowing only those ports where speech is detected to transmit into the conference.

- Digital echo cancelers eliminate the "talking from the bottom of the barrel" effect.

The Dynalec DCSS 240e-ns provides superior voice quality and unsurpassed reliability. It allows you to access conference calls from a touch-tone phone.

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Access conference call without an Attendant

With the DCSS 240e-ns, you can access conferences from a standard touch-tone telephone anywhere in the world.

Voice prompts guide you through the process of entering digits for particular conference functions. You can activate a conference or join a conference activated by another user.

Choose from three conference types

- **Preset.** Prearranged and preprogrammed conferences are started by entering a conference code from a touch-tone phone. The DCSS simultaneously dials all prearranged conferees. When the conference originator hangs up the phone, the conference is terminated.

- **Meet-me.** A prearranged conference allowing each user to dial into the DCSS by entering a conference code to join the conference. The meet-me conference stays active until the last conferee hangs up.

- **Progressive.** Allows the originator to dial each conferee individually and add them to the conference. When the conference originator hangs up the phone, the conference is terminated.

Expanded capabilities for your current telecommunications system

- The Dynalec DCSS 240e-ns can be installed stand-alone, behind a central office switch or in conjunction with your on-premises PBX. In the stand alone mode, certain FCC restrictions may apply. In each instance, it can significantly expand your telecommunications capabilities.

- In addition to day-to-day teleconferencing, you can use the DCSS 240e-ns for crisis management, teletraining and as a flexible enhancement to video conferences.

Built for reliability and easy maintenance

The DCSS 240e-ns is designed and manufactured to rigorous standards for excellent reliability. The system can handle your most critical communications needs.

It features both an on-line and stand-by processor, each with its own power supply. Should the on-line processor fail, the DCSS 240e-ns automatically switches to the stand-by processor without disrupting conferences, assuring the operational viability of your system.

The DCSS 240e-ns owes much of its reliability to its microprocessor-based design. A 32-bit microprocessor controls the system's conferencing functions, storing the main program in EPROM and administrative entries in EEPROM. The approach eliminates the long start-up delay found in systems controlled by tape or disk. This improves reliability since there are no moving parts.

The DCSS 240e-ns is also easy to maintain and requires no adjustments. Built-in diagnostics continually monitor the system; fault detection, reporting and isolation are automatic. Defective cards are identified with a red LED and can be changed without powering down.

Dynalec supports the DCSS 240e-ns with technical documentation, training and a maintenance support hotline. We back the DCSS 240e-ns with a one-year limited warranty.

Specifications

DCSS conference features & Capabilities

- Programmable voice announcements (selected from a fixed announcement set)
- Conference entry/exit notification tones
- Non-blocking architecture
- Modular growth from 24 to 240 ports
- Dynamic port allocation
- Full duplex conversation
- No clipping
- Uniform voice levels
- Administration and maintenance via CRT terminal
- AC or DC powered systems
- Remote diagnostics and trouble shooting
- Screening of answering machines on preset conferences
- Accommodates up to 22 digit telephone numbers

Administration/maintenance

- 4410 Emulation Terminal
- RS-232 input to DCSS 240e-ns
- Menu-driven
- Remote maintenance capability

Product Certifications

- **UL 1459**
- **FCC Part 15 Class A**
- **FCC Part 68**

Additional features and capabilities available with the optional DCSS Conference Controller

- 14-inch monitor with mouse interface
- Up to six DCSS Conference Controllers per system
- Removable via dedicated RS-232 link
- Distributed Teleconferencing Software (DTS) for multiple bridge networks
- Remote maintenance capability
- 40,000 number autodial directory
- Accommodates up to 40 digit telephone numbers
- Split and combine conferences
- Attendant recall
- Call status displayed
- Automatic disconnect of hung-up circuits
- Attendant forced disconnect of conferences
- Probe for noisy lines
- Conference Lock
- Autodial/redial
- Entry/Exit tones on a per-conference basis
- Separate conference codes for listen-only conferees
- Call history reports
- Dial-up attendant voice path
- Single and recurring reservation capability
- Talker identification
- Question and Answer session control
- Meet-me conference edit forms
- Preset conference form
- Blast or progressive dialing of conferees
- Autostart conferences

- Broadcast and listen only conference modes
- Color coded incoming call event identification

Input signal range

- -27 dBm to +3 dBm

Output level

- -15 dBm

Echo delay range

- Zero to 64 milliseconds

Speech-detection delay

- <20 milliseconds

Capacity

- Any combination of conferees and/or conferences up to a maximum of 240 ports

Operating environment

- Maximum operating ambient temperature range: 32° to 110° F (0° to 43°C)
- Recommended ambient temperature range: 65° to 95°F (18° to 35°C)
- Maximum operating relative ambient humidity range: 10% to 90%
- Recommended ambient humidity range: 20% to 60%

Power requirements

- -48 VDC, 25 amp, -43 to -52 VDC (AC available with external power source)

Physical characteristics

- Dimensions: 30" w x 75" h x 23.5" d
- Weight: Approx. 560 lbs.

Interface

- DS1 (T1 carrier – tie trunk signaling)

