



Audio Nurse Call 5500
Visual Nurse Call 5000



System Control Units, Audio

HTN7672UA (64 Addressable Stations, 2 Consoles)

HTN7674UA (128 Addressable Stations, 4 Consoles)

Description: The System Control Units consist of Power Supplies, a Processor Module, an Audio Switching Module and Audio Amplifier Modules. Each Control Unit is the control center for the Call System, the top of the line. Multiple Consoles, swing room capability, remote diagnostics, and interfacing to radio paging and the centralized system are just a few of the innovations that comprise the feature-packed product.

Wall-mounted in a steel cabinet, the Control Unit contains the field connection points for terminating the power, control, audio and data cables from the Consoles, Annunciator Panels, Patient Stations and other input/output devices installed in the system.

Operation: When used with a Cornell System, the System Control Unit accommodates up to 80-160 addressable stations (including 16/32 duty stations) and four 32-LED Annunciator Panels.

Mounting: Cornell provided Cabinet with surface or flush mount door.

Engineering Specifications: The System Control Unit shall be available in two versions and shall be constructed on a single stainless steel panel for installation in a flush or surface wall-mounted equipment cabinet, model HDN7681UA, 36" high X 24" wide X 4" deep. The Control Unit panel (CU) shall contain the power supplies, Processor Module, Audio Switching Module and Audio Amplifier Modules which shall be the power and control elements of the Call System. The 64-station version shall be equipped with one 12- and one 24-volt power supply, and the 128-station version shall have one 12- and two 24-volt power supplies to accommodate the dome lights and solid state circuit assemblies required in the various systems.

The linear-regulated power supplies shall be single-output, open-frame units, which shall operate from a 120 or 240 VAC (by setting internal jumpers), 50-60 Hz power source. They shall be factory wired for 120 VAC.

The Processor Module, the microcontroller-based control center for the Call System, shall be a single printed circuit board assembly mounted on the Control Unit panel. It shall contain an advanced Intel microcontroller device and the solid state memory devices (FLASH and SRAM) needed to store data and run the system program. The system program and the configuration parameters shall be stored in non-volatile memory which shall retain all programmed data even if power is removed. In addition, the Processor Module shall contain power and signal conditioning circuits and the termination points for various corridor and annunciator cables in the system. The Processor Module shall also provide a termination point for an interface to an ANSI-type configuration terminal, a modem for remote diagnostics, a full function Radio Paging system or a Centralized Call System. The Audio Switching Module (ASM) and Audio Amplifier Modules (AAM) shall be included on the Control Unit panel. The ASM shall contain the audio control and switching circuits, and audio interface circuits to provide a voice link from any one station zone to each nurse console. Each Audio Amplifier Module shall plug into the ASM and provide two-way amplification of the audio signals during patient-to-staff and staff-to-staff voice communications. Audio, data and signal lines from the nurse console shall be terminated at pluggable screw-type connectors on the Audio Switching Module or Processor Module.

Technical Information:

- Power Requirements:
 - AC power input: 120/240 VAC, 50/60 Hz, 600 Watts maximum
 - DC power output: +12V (1 Amp nominal) from 12 VDC power supply (Control Circuits)
 - +24V-1 (3.6 Amps max.) from 24 VDC p/s no. 1 (Dome Light Circuits)
 - +24V-2 (3.6 Amps max.) from 24 VDC p/s no. 2 (Dome Light Circuits)
- Operating Environment: 50-120°F Indoor Non-condensing
- Physical Dimensions: 36" High X 24" Wide X 4" Deep
- Mounting: Cornell Provided Cabinet
- Wiring: #22 AWG Minimum

CORNELL COMMUNICATIONS, INC.

Milwaukee, Wisconsin USA • 800-558-8957 • 414-351-4660 • Fax 414-351-4657
www.cornell.com • sales@cornell.com



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