



# Primary Network Hub

## PNH-1



The Primary Network Hub is a sophisticated electronic device offering a complete range of audio-related functions. The Primary Hubs are installed throughout the ceiling in a grid-like pattern and a Loudspeaker is attached to each one. These Hubs are connected to the Control Panel in series and are automatically assigned an operating address during initial start-up of the Network. The Control Panel uses this operating address to identify and communicate with the Primary Hubs, allowing the user to program all of the output variables of the Loudspeakers.

The Primary Hub features Digital Signal Processing (DSP) random masking sound generation, a 1/3-octave masking equalizer, a 1/1-octave paging equalizer, integrated volume controls for masking and paging, multiplexed paging selection, an amplifier, and communication technology. This sophisticated level of component integration provides digital-quality audio and industry-leading flexibility, while eliminating the need for centrally-located audio equipment.

### Masking Performance

Masking Sound Generation	Digital Signal Processor (DSP)
Volume	35 to 85 dBA, 0.5 dBA steps, mute
Equalization	1/3-octave, 23 bands
Preset Contours	50 options

### Paging Performance

Zone Configuration	Zone 1, 2, 3 or none
Volume	35 to 85 dBA, 0.5 dBA steps, mute
Equalization	1/1-octave, 8 bands
Preset Contours	50 options

### Timer Performance

Programming	Programmed through Control Panel or Software
-------------	--

### Secondary Hubs Supported

# of Secondaries Per Primary	0 to 2
# of Loudspeakers Per Primary	1 to 3

### Connections

Network Input	6-pin
Network Output	6-pin
Secondary Hub Outputs	2-pin (2)
Loudspeaker Assembly Output	2-pin

### Cabling

Primary to Primary	CA6 series cable
Primary to Secondary	CA2 series cable

### Power

Input	40 Vdc
Consumption	At typical settings, 3.6 W; at maximum settings, 6.4 W

### Integrated Amplifier

Power	5 Watts
-------	---------

### Physical Specifications

Dimensions (W x H)	13.0 x 4.5 cm; 5.1 x 1.75 inches
Enclosure Material	Plenum-rated resin
Colour	White or charcoal grey
Weight	0.2 kg; 0.4 lb

### Mounting

Methods	Flexible mounting options; see installation manual
---------	--

### Security

Physical	No physical controls on Hub
Electronic	Monitored communication with Control Panel