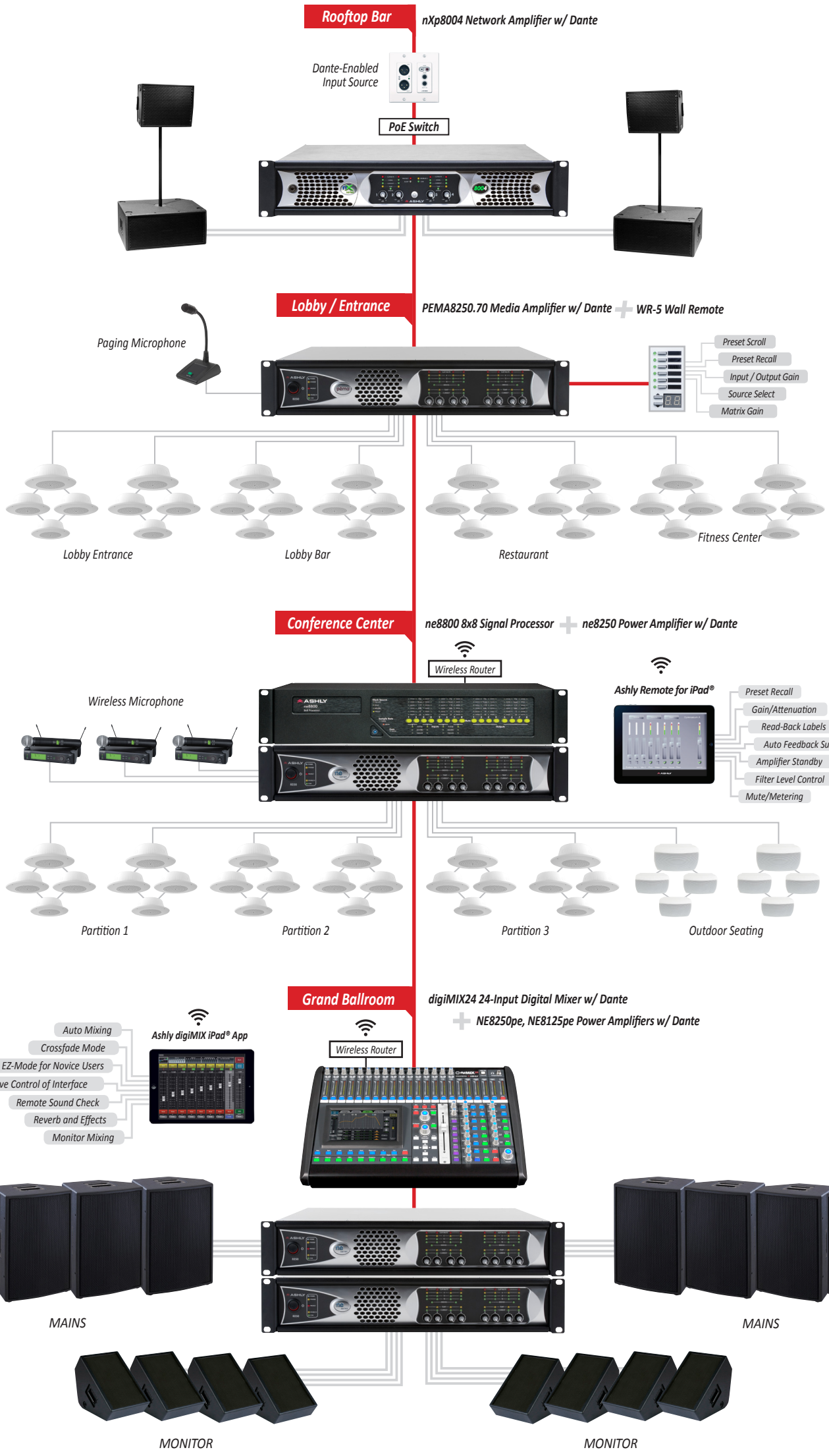
Multi-Level Audio System with Dante® (Hotel)



Multi-Level Hotel System with Dante

Dante networking connects Ashly multi-channel amplifiers and matrix signal processors together provide a strategy that utilizes the efficiency of localized amplifiers. This example shows a Dante-enabled solution for a multiple levels with global connectivity on various floors in a Hotel.

Dante allows interconnection with a wide array of available Dante-compatible devices. This keeps the wiring requirements simple (all CAT5 or CAT6) and realizes the benefits of an all-digital signal path- free from noise, EM interference and ground loops.

All this can run on a single dedicated or existing Ethernet network, using standard network hardware. Ashly's Dante I/O cards now supports Dante v4.0 which is compliant with AES67 standards and offers greater flexibility and compatibility when configuring systems utilizing various digital audio transmission protocols. Dante end-points work with PoE (Power Over Ethernet).

Supporting for Live Events

The Rooftop Bar is equipped with a mobile PA system to support music from a media player or a DJ. The system uses a 4-input wall plate with XLR, 3.5mm and RCA inputs which connect to a nX8004 (4 x 800W) with Dante option card (OPDC4) powering a passive speaker system.

The Ballroom PA system is a bit more robust, designed with a digiMIX24 mixing console paired ne Series power amplifiers. This application uses one digiMIX24 (w/ Dante-32 option card) one ne8250pe (8 x 250W) for mains and one ne8125pe (8 x 125W) for monitors, both with a Dante option card (OPDC4).

Intelligent Mixing

The Conference Center setup takes advantage of some advanced functions in the ne8800 such as Ducking for automatically adjusting the audio in response to ovehead pages or announcments. For event speakers, connecting multiple wireless microphones, to the ne8250 is easy. Input EQ, automixing and compression are set specifically for the individual inputs.

Amplifiers are can be controlled via the Ashly Remote iPad App to adjust sound levels in multiple zones and muting inputs.

"Paging Mr. Jones.....":

For this paging application, the PEMA comes in a 70V configuration (for typical ceiling/paging speakers) and equipped with mic inputs on all channels. PEMA's on-board DSP offers priority assignments and ducking for override of lower priority sources (such as background music). System functions can be controled via a programmable WR-5 Wall remote to provide convenient push-button functionality to assigned paging zones over the network.

Live Digital Mixing Console

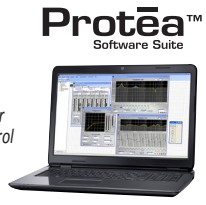
The Grand Ballroom is equipped for performance—a wedding band or business convention. The digiMIX24 not only serves as a command center for FOH mixing (24 x 8 AUX channels, or 24 x 4 AUX channels, 24 x 4 SUB-group channels) with a Dante-32 network card, all audio outputs can be fed over network to other Dante-equipped devices. In this way, the Ballroom mix can be sent to the Conference room and Rooftop so music and/or performances may be heard throughout the hotel.

Protea DSP utilized where needed.

Select amplifiers and processors use Protea DSP. Protea provides an option for EQ, crossover, limiting and delay for speaker system management over the network. Whether powering Mid/Highs, Subwoofers or monitors for PA applications, or ceiling and wall speakers for paging and background music, Ashly's Protea DSP can handle it all.

Protea DSP includes:

-Matrix Mixer
-Comp/Limiter
-Auto-Leveler
-Auto-Mixing
-Feedback Suppressor
-Ambient Noise Control
-Ducker
-Gate
-Delay
-EQ: 31-Band, Parametric, HPF/LPF
-Crossover (2-way / 3-way / 4-way)



Ashly Remote and digiMIX Apps

Users can also have control of all amplifier inputs and outputs via the free Ashly Remote for iPad (shown) and also a free iPad app that allows control of digiMIX console functions (iPad not included. Requires additional wireless router. Apps available for download from the Apple App Store)

Additional notable features:

- *Serial data control (ne Series)*
- *AUX preamp outputs (Pema Series)*
- *Instant standby mode*
- *Preset recall*
- *Fault condition logic outputs*
- *Digital audio capability (with digital audio interface card installed)*
- *Network audio (network version models)*
- *Built-in signal generator for test tone and noise-masking (all Protea-based models)*
- *Precision load impedance monitoring on each amplifier channel output*