



RU-NMP44

Network Mixing Processor

System Drawing Applications



Available Remote Controls

Network



D-NMC1



D-NLC1

Analog



D-RC4M

Software Configurable



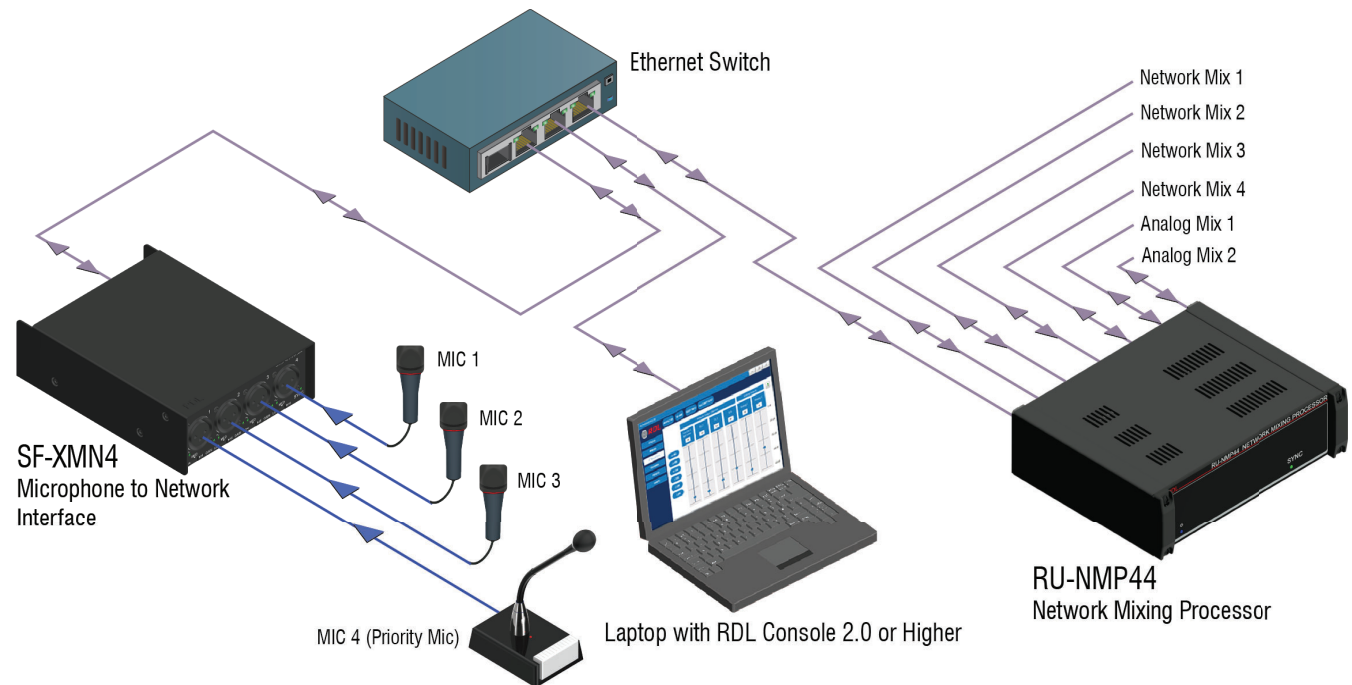
RU-NMP44 Rear View



Mix Four Sources Independently to Six Zones with Priority Ducking.

Description

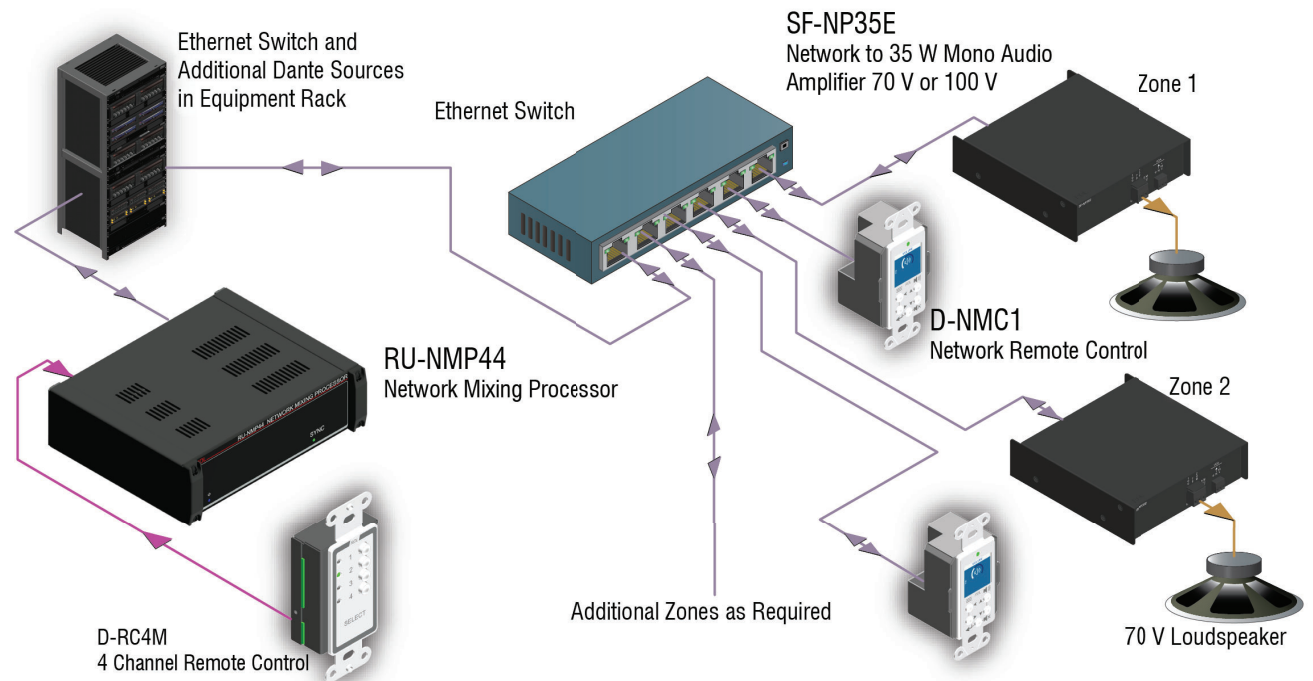
In this application, four microphones are mixed in six different configurations and independently routed to six zones. The mic signals are first fed into an SF-XMN4 Microphone to Network Interface, converted to four Dante network channels, then routed to an RU-NMP44 Network Mixing Processor. The RU-NMP44 internally distributes all four Dante signals to six 4x1 virtual audio mixers. Each mixer features automatic (VOX) priority ducking that allows priority to be assigned to any one of the four network channels (i.e., MIC 4). RDL's Console 2.0 software (or higher) is used to configure the channel levels and priority ducking for each mixer. Each mixer outputs to a different zone. Mixers 1 through 4 output Dante channels, which are routed to endpoints in zones 1 through 4, such as Dante audio amplifiers, powered loudspeakers, or wall, surface, and rack mount interfaces. Mixers 5 and 6 output balanced line-level to devices in zones 5 and 6, such as analog audio amplifiers, powered loudspeakers, mixing consoles, recording devices, and more.



Four Presets Activate System Configurations.

Description

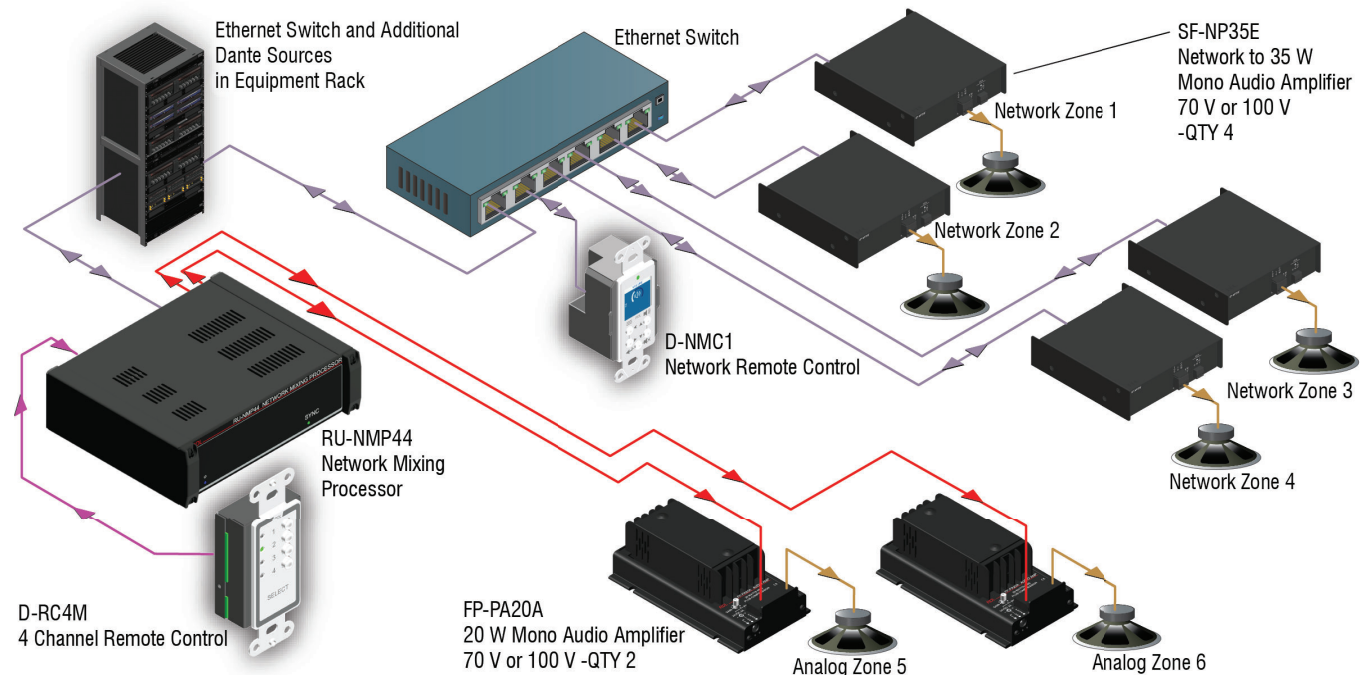
One D-RC4M 4 Channel Remote Control is used to activate four Presets stored on the RU-NMP44 Network Mixing Processor. The RU-NMP44 is configured using RDL's Console 2.0 software (or higher). Four Dante sources are routed to the RU-NMP44 which are internally distributed to six 4x1 virtual audio mixers. Two mixers are used to output Dante channels. The signals are routed to SF-NP35E Network to 35 W Mono Audio amplifiers powering 70 V ceiling loudspeakers. The D-RC4M remote control has four buttons with corresponding LEDs that indicate which preset is selected. One D-NMC1 Network Remote Control with Screen is installed in each zone to provide local level control. If desired, up to three D-RC4M controls can be wired in parallel. The RU-NMP44's Presets can be activated by a network command, an RDL network or wired remote control, a momentary switch closure or a compatible open-collector from other equipment. And it can be configured to power up to a preset, to the last settings used, or with all levels "off".



Single Remote Level Control for Six Zones.

Description

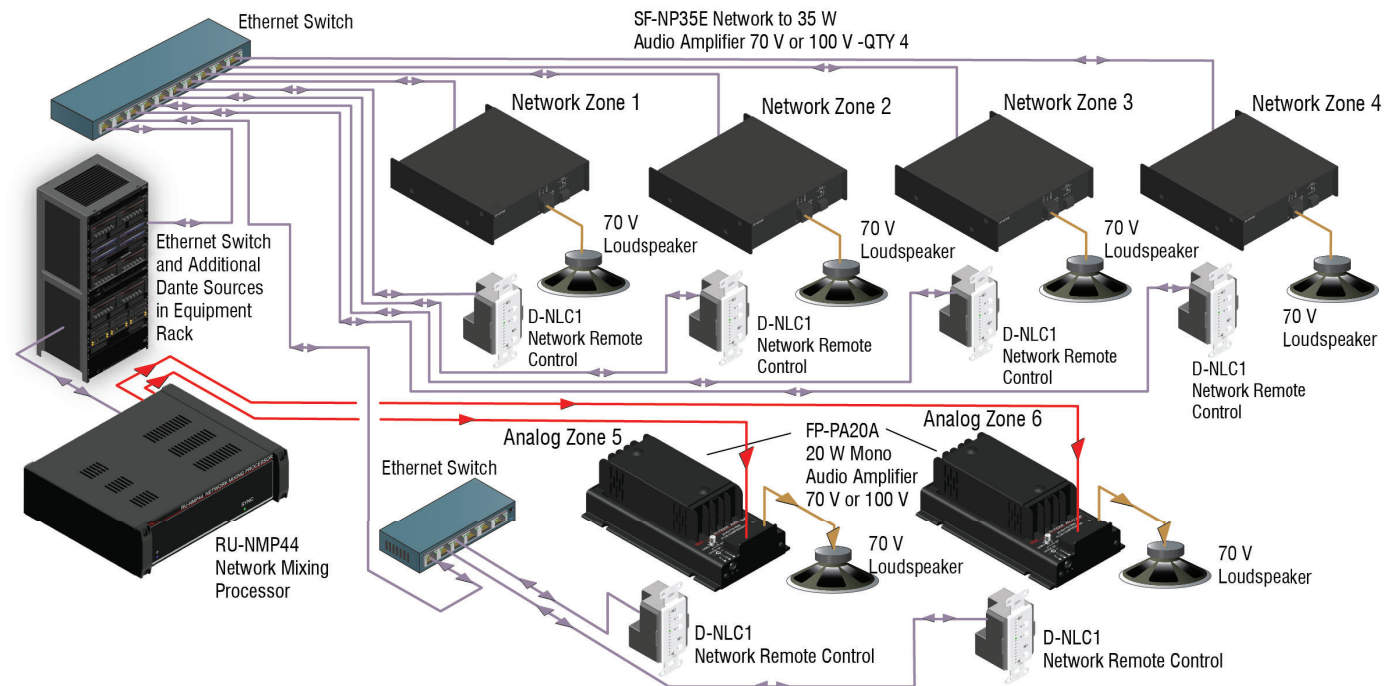
Four network sources (i.e., microphones, computer audio, BGM, paging, etc.) are routed to an RU-NMP44 Network Mixing Processor. All four signals are internally distributed to six 4x1 virtual audio mixers. Mixers 1 through 4 output Dante signals which are routed to SF-NP35E Network Mono Audio Amplifiers in the first four zones. Mixers 5 and 6 output balanced line-level audio which connect directly to FP-PA20A Mono Audio Amplifiers in the fifth and sixth zones. Each amplifier powers one or more 70 V ceiling loudspeakers. One D-RC4M 4 Channel Remote Control is used to activate the four Presets stored on the RU-NMP44. It features four buttons with corresponding LEDs that indicate which preset is selected. Each preset can define any or all mixer level settings, priority ducking assignment, source selection and routing. One D-NMC1 Network Remote Control with Screen is installed to provide individual level control for all six zones. Each zone on the remote control can be custom labeled for easy identification.



Local Level Control for Six Zones.

Description

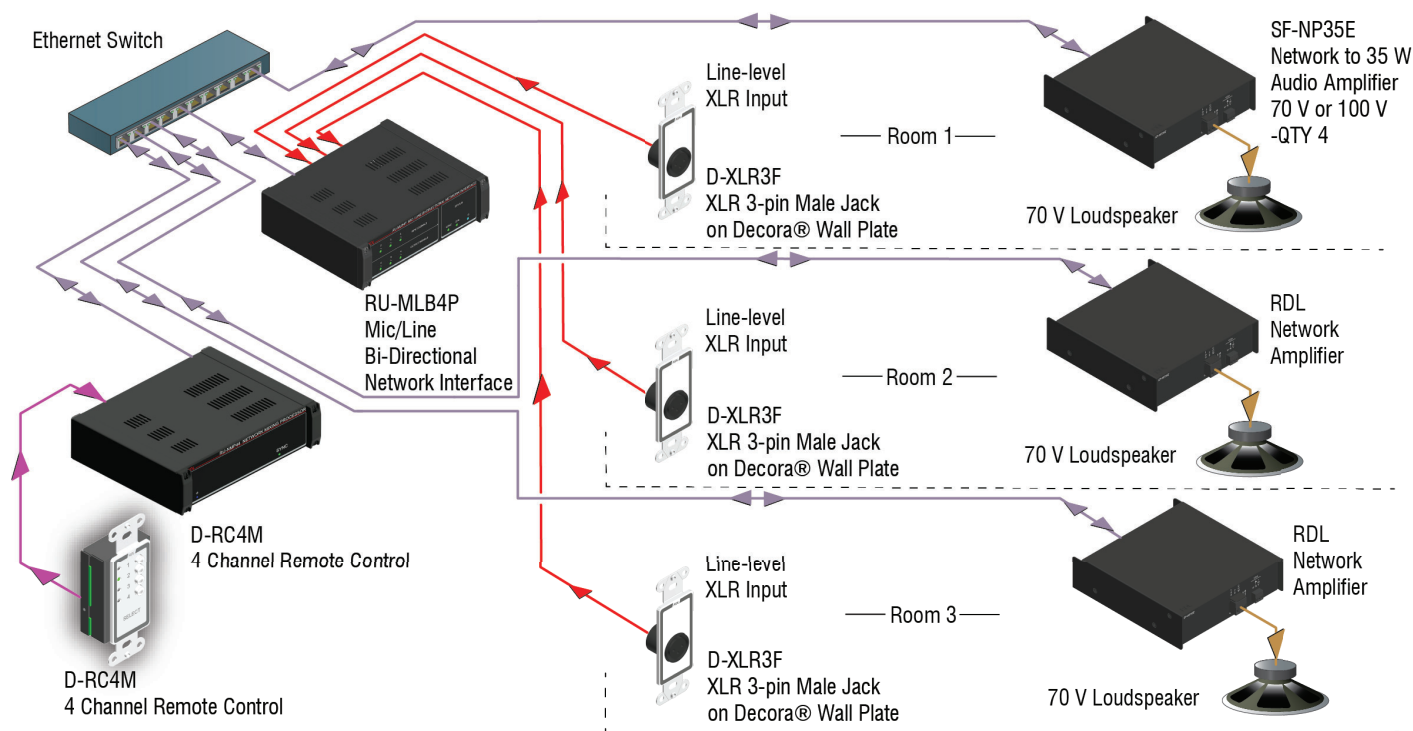
Four network sources (i.e., microphones, computer audio, BGM, paging, etc.) are distributed to six zones, each with local level control. The network audio signals are first routed to the RU-NMP44 Network Mixing Processor and internally distributed to six 4x1 virtual audio mixers. Each mixer outputs audio to one zone. Mixers 1 through 4 output network signals, which are routed directly to SF-NP35E Network Audio Amplifiers in the first four zones. Mixers 5 and 6 output balanced line-level audio which connect directly to FP-PA20A Mono Audio Amplifiers in the fifth and sixth zones. Each amplifier powers one or more 70 V ceiling loudspeakers. Six D-NLC1 Network Remote Control with LEDs are installed, one per zone, to provide local, user-friendly, level control. Based on the commands sent to the RU-NMP44, each mixer can be used as a mixer, a source selector, a priority paging inserter and/or as a volume control.



RU-NMP44

Network Mixing Processor

Networked Room Combining System for Three Rooms.



Description

One RU-NMP44 Network Mixing Processor provides room combining features for three rooms. Each room has one D-XLR3F XLR 3-pin Female Jack on Decora® Wall Plate, which connect to an RU-MLB4P Mic/Line Bi-Directional Network Interface. Each input on the RU-MLB4P is switch-selectable for mic or line-level signals. In this system example, line-level is selected to accommodate portable audio mixers with line-level outputs. The RU-MLB4P converts these signals to Dante network channels, which are routed to the RU-NMP44. The RU-NMP44 internally distributes these signals to three 4x1 virtual audio mixers that output to Dante network channels. Each mixed output is routed to an SF-NP35E Network Amplifier that powers one or more ceiling speakers in each room. The RU-NMP44 stores four Presets which are configured using RDL's Console 2.0 software (or higher). Each Preset provides a desired room combination:

- Preset 1:** All rooms independent.
- Preset 2:** 1 & 2 are combined; 3 is independent.
- Preset 3:** 1 is independent; 2 & 3 are combined.
- Preset 4:** All rooms combined.

RDL's D-RC4M 4 Channel Remote Control uses 4 buttons with LED indicators to activate each Preset. As with all D-Series products, the remotes and wall plates are available in white, black, and stainless steel.