Dante and Format-A Amplifiers
Applications

SF-NP100A
Network to 100 W Mono
Audio Amplifier - 70 V or 100 V

SF-MA100A
Format-A to 100 W Mono
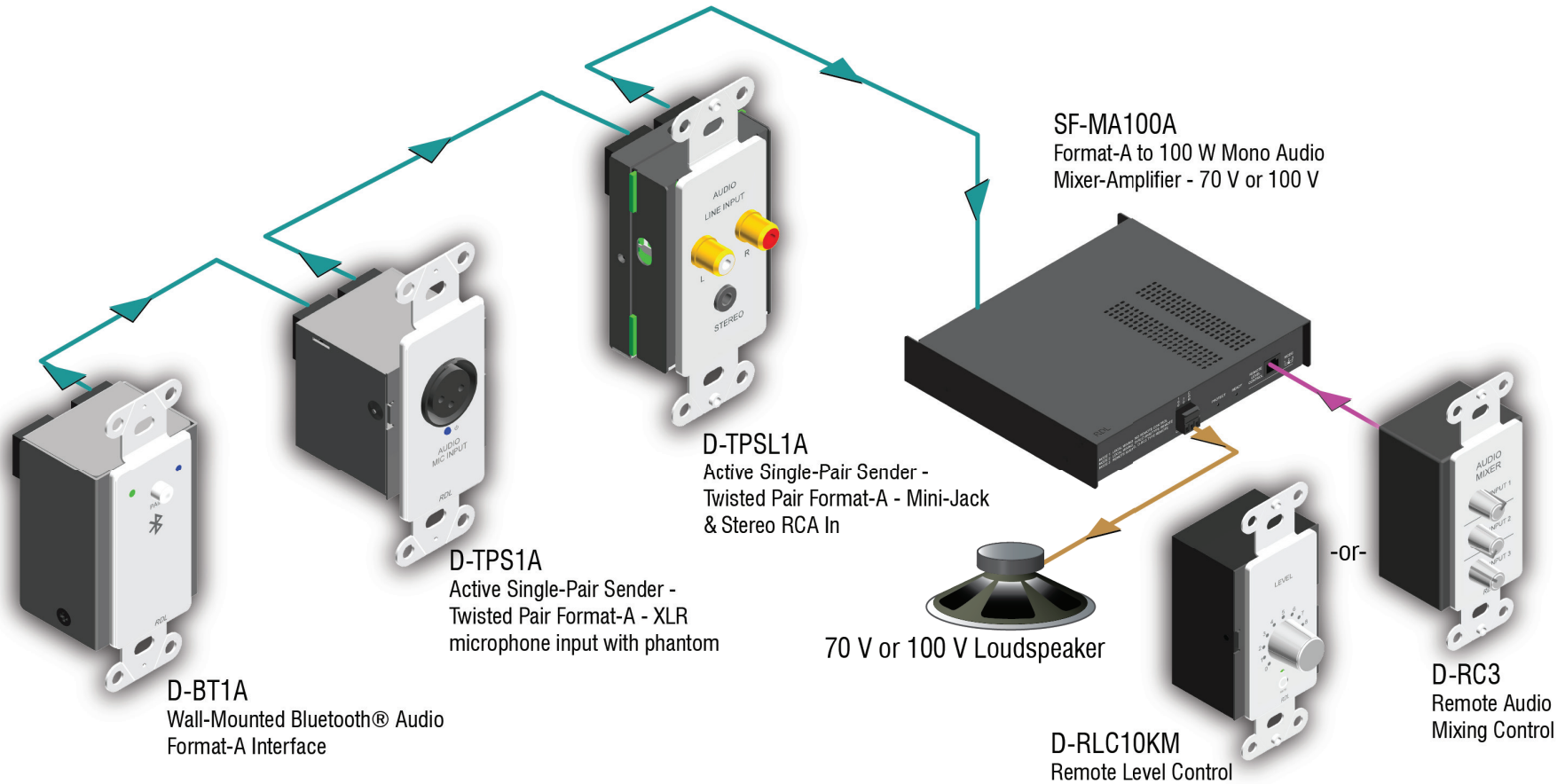Audio Mixer-Amplifier - 70 V or 100 V

SF-PA100A
Format-A to 100 W Mono
Audio Amplifier - 70 V or 100 V

Remote Audio Mixing Control for a Single Zone Format-A Amplifier System

Featuring the **SF-MA100A** Format-A to 100 W Mono Audio Mixer-Amplifier - 70 V or 100 V

SF-MA100A
Format-A to 100 W Mono Audio
Mixer-Amplifier - 70 V or 100 V

D-TPSL1A
Active Single-Pair Sender -
Twisted Pair Format-A - Mini-Jack
& Stereo RCA In

D-TPS1A
Active Single-Pair Sender -
Twisted Pair Format-A - XLR
microphone input with phantom

D-BT1A
Wall-Mounted Bluetooth® Audio
Format-A Interface

70 V or 100 V Loudspeaker

D-RLC10KM
Remote Level Control
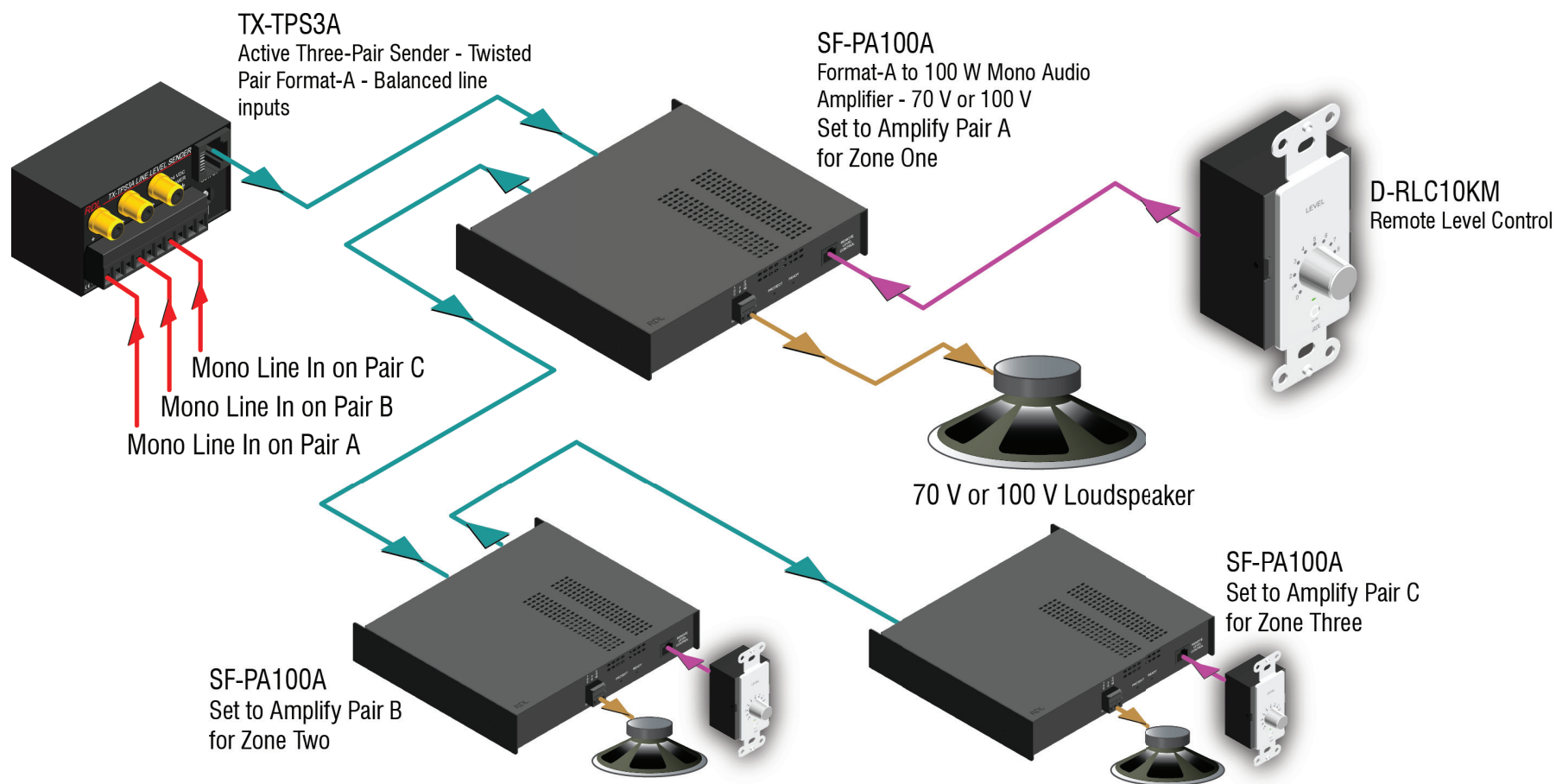
-or-

D-RC3
Remote Audio
Mixing Control

Description

Bluetooth and line-level sources feed three Format-A Single-Pair Senders. The Senders are looped together on one CATx cable run. Each Sender is switched to send audio over one Format-A Pair: A, B and C respectively. All three signals feed an SF-MA100A Mixer Amplifier. This amplifier features three operating modes: 1) LOCAL MIXING, NO REMOTE CONTROL, 2) LOCAL MIXING, USING D-RLC10KM TYPE REMOTE for level control of the audio output, 3) REMOTE MIXING, D-RC3 TYPE REMOTE (as shown in this system diagram), for remote level control of each mixer input. The mixed signal is converted to the amplifier's mono constant voltage output. 70 V or 100V loudspeaker(s) are connected to the amp. For larger system applications, the SF-MA100A features a LOOP OUT jack which distributes all three Format-A signals to additional SF-MA100A or SF-PA100A amplifiers. External volume control for each SF-PA100A amplifier is provided by using RDL's D-RLC10KM type remote level controls.

- 100 Watts RMS Constant Voltage Amplifier
- 70 V or 100 V Output
- Three Operating Modes
- Mode 1: 3-Input Mixer Amp with No Remote Control
- Mode 2: 3-Input Mixer Amp with VCA for Remote Level Control of Audio Output
- Mode 3: 3-Input Mixer Amp with VCA Remote Control of Each Mixer Input
- Mixes Audio Inputs from Format-A Pair A, Pair B and Pair C
- Format-A Signal and Power Pairs Pass Through to LOOP OUT Jack
- Level Control Using RDL Type D-RLC10KM (Mode 2) or D-RC3 (Mode 3) Remote Controls with RJ45
- LED Indicators: Amplifier Output Level and Status, and Correct dc Voltage on Format-A Output
- High-Efficiency Class D Operation
- Plenum Rated per UL 2043 Standard

Three Zone Format-A Amplifier System with Individual Remote Volume Controls

Featuring the **SF-PA100A** Format-A to 100 W Mono Audio Amplifier - 70 V or 100 V

TX-TPS3A
Active Three-Pair Sender - Twisted Pair Format-A - Balanced line inputs

SF-PA100A
Format-A to 100 W Mono Audio Amplifier - 70 V or 100 V Set to Amplify Pair A for Zone One

D-RLC10KM
Remote Level Control

Mono Line In on Pair C
Mono Line In on Pair B
Mono Line In on Pair A

70 V or 100 V Loudspeaker

SF-PA100A
Set to Amplify Pair C for Zone Three

SF-PA100A
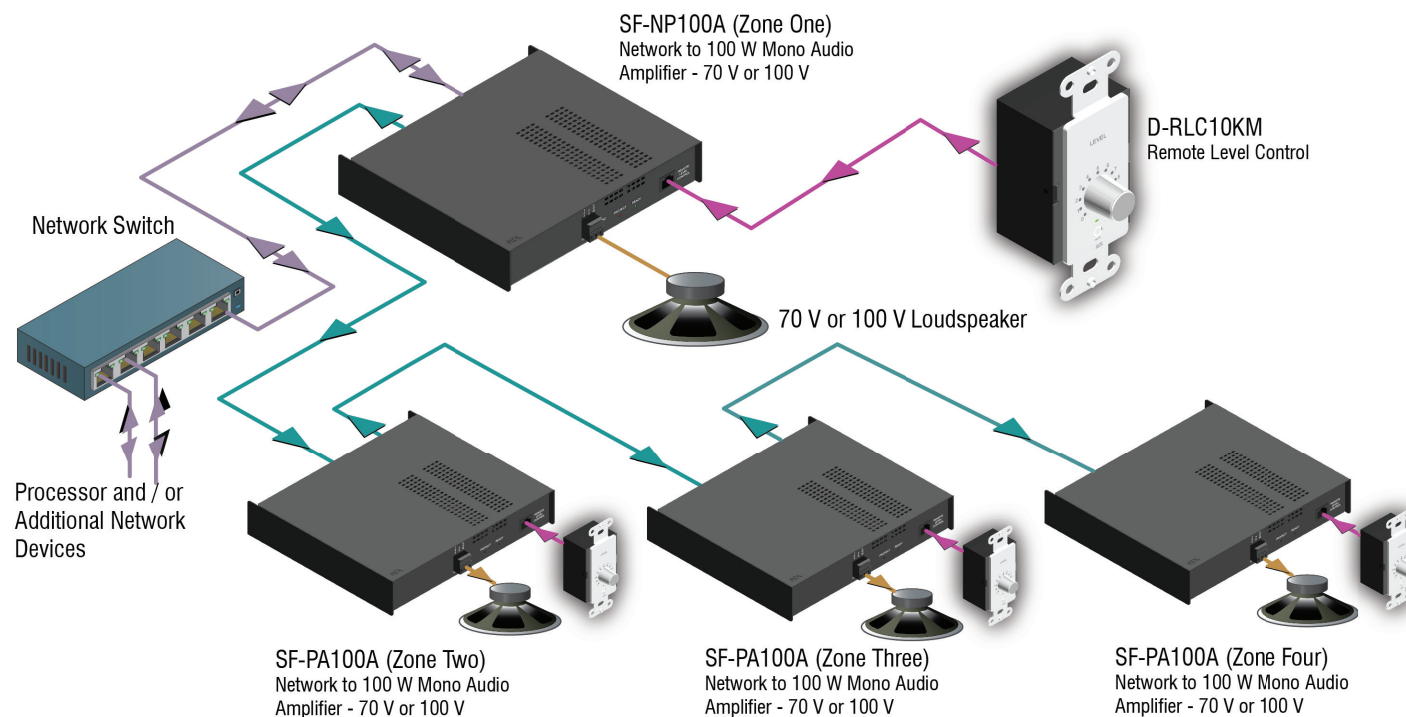Set to Amplify Pair B for Zone Two

Description

Three analog balanced or unbalanced line-level sources are connected to the three inputs on the TX-TPS3A Format-A Active Three-Pair Sender. The signals are converted to Format-A Pairs A, B and C, and transported over standard CATx cable to the FORMAT-A INPUT jack on the SF-PA100A amplifier in zone one. This amplifier is set to amplify the audio on input Pair A. The amplifier's FORMAT-A LOOP OUT jack is used to connect to the second amplifier using another CATx cable. The zone two amplifier is set to amplify the audio on Pair B. In the same manner, the zone two amplifier connects to the zone three amplifier that is set to amplify the audio on Pair C. Volume control is provided in each zone by a separate D-RLC10KM type remote level control connected to the REMOTE LEVEL CONTROL jack on each amplifier. 70 V or 100 V loudspeakers are connected to each amplifier.

- 100 Watts RMS Constant Voltage Amplifier
- 70 V or 100 V Output
- Audio Input is Switch-Selectable from Format-A Pair A, Pair B or Pair C
- Converts One Format-A Audio Signal Pair to a Mono Constant Voltage Output
- Format-A Signal and Power Pairs Pass Through to LOOP OUT Jack
- External Level Control Using RDL D-RLC10KM-Type Remote Level Controls with RJ45
- Special Software Not Required for Module Setup
- LED Indicators: Amplifier Output Level and Status, and Correct dc Voltage on Format-A Output
- High-Efficiency Class D Operation
- Thermal and Short-Circuit Protection
- Plenum Rated per UL 2043 Standard

Four Zone Dante/Format-A Amplifier System with Individual Remote Volume Controls

Featuring the **SF-NP100A** Network to 100 W Mono Audio Amplifier - 70 V or 100 V

SF-NP100A (Zone One)
Network to 100 W Mono Audio
Amplifier - 70 V or 100 V

D-RLC10KM
Remote Level Control

Network Switch

70 V or 100 V Loudspeaker

Processor and / or
Additional Network
Devices

SF-PA100A (Zone Two)
Network to 100 W Mono Audio
Amplifier - 70 V or 100 V

SF-PA100A (Zone Three)
Network to 100 W Mono Audio
Amplifier - 70 V or 100 V

SF-PA100A (Zone Four)
Network to 100 W Mono Audio
Amplifier - 70 V or 100 V

Description

Four Dante network audio signals are routed to the SF-NP100A Network Amplifier in zone one. One signal is converted to the amplifier's mono constant voltage output. The three remaining signals are converted to a FORMAT-A OUTPUT jack on Pairs A, B and C. Using standard CATx cable, the Format-A signals are sent to three cost-effective SF-PA100A Mono Amplifiers in zones 2, 3 and 4. Each amplifier is set to amplify the audio on one Pair: A, B and C respectively. All three signals pass through each SF-PA100A's FORMAT-A LOOP OUT jack which can feed additional SF-PA100A amplifiers. For multiple zones requiring the same source, up to 10 daisy-chained amplifiers can select the same pair. D-RLC10KM type remote level controls are connected to the REMOTE LEVEL CONTROL jack on each amplifier. 70 V or 100 V loudspeakers are connected to each amp.

- 100 Watts RMS Constant Voltage Amplifier
- 70 V or 100 V Output
- Compatible with Dante or AES67 Network Audio Sources
- Converts One Network Audio Signal to a Mono Constant Voltage Output
- Converts Three Network Audio Signals to a Format-A Output on Pairs A, B and C
- Selectable Dante Sample Rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
- External Level Control Using RDL D-RLC10KM-Type Remote Level Controls with RJ45
- Special Software Not Required for Module Setup
- LED Indicators: Network Sync, Amplifier Output Level and Status, Correct dc Voltage on Format-A Output
- High-Efficiency Class D Operation
- Thermal and Short-Circuit Protection
- Plenum Rated per UL 2043 Standard