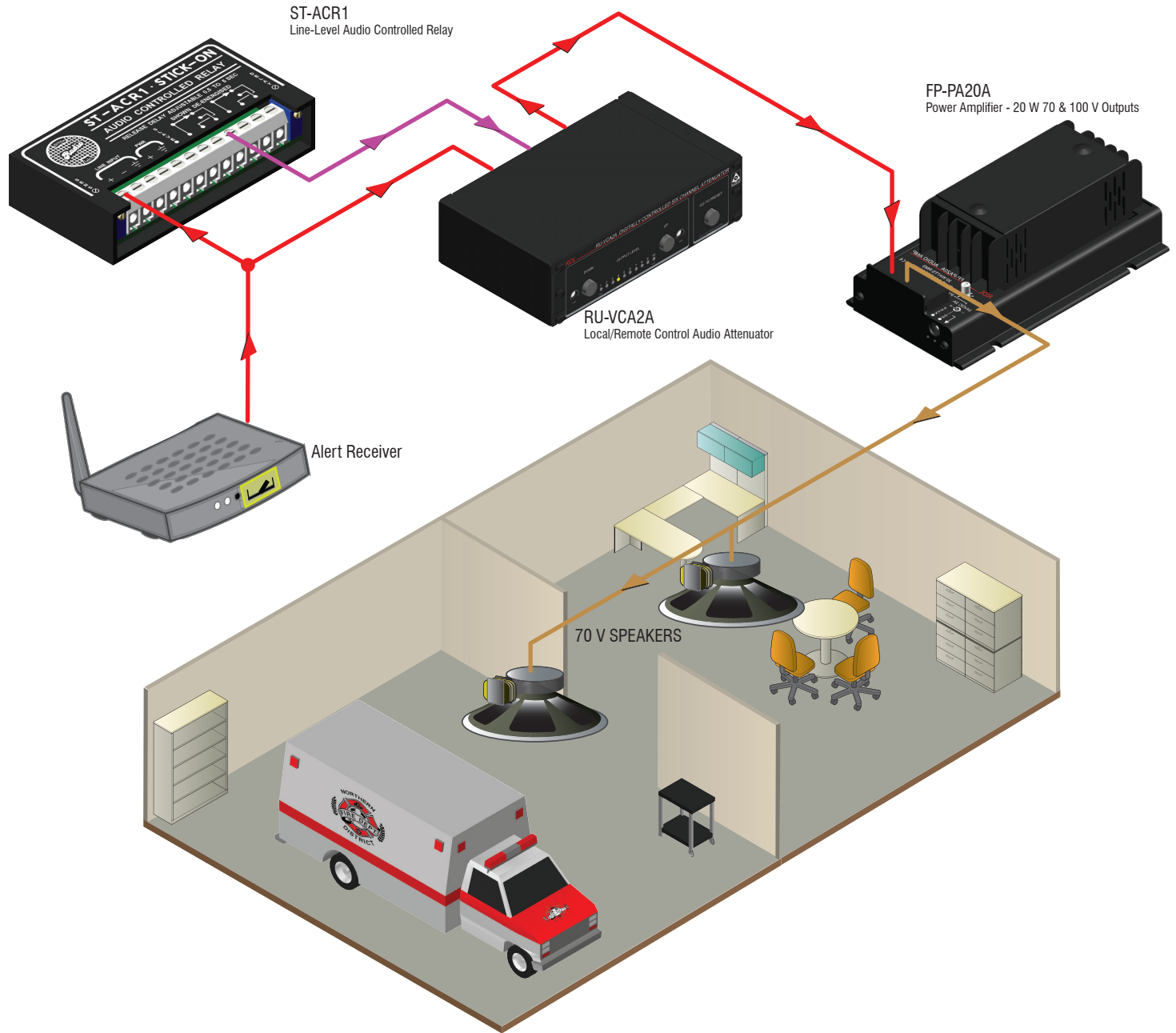


# AUTOMATIC RAMP OF ALARM SIGNAL

Voltage Controlled Attenuator Controls Alert Activation Tone Bursts and Receiver Noise



## Description:

The RU-VCA2A Local/Remote Controlled Audio Attenuator has an internal ramp generator which makes it ideal for switch or relay-operated level control. In this example, the ST-ACR1 Line-Level Audio Controlled Relay is used to operate the RU-VCA2A so that the activation tones sent at the start of the fire dispatch transmission are fed at reduced volume to the speakers. Full volume is reached in time for the alert message. When an alert tone is first received, the ST-ACR1 senses audio and causes the RU-VCA2A to ramp up the audio level. After the message is finished, the audio level is returned to minimum. The RU-VCA2A allows front-panel setup of both ramp up and ramp down rates. The combination of the ST-ACR1 and RU-VCA2A prevents random receiver noise or activation tones from bursting at full volume through the fire station sound system.

The FP-PA20A 20 Watt Power Amplifier with 70 and 100 Volt Outputs is shown in this example.

Parts List	
Product	QTY
FP-PA20A	1
RU-VCA2A	1
ST-ACR1	1

Recommended Pwr. Supplies	
Product	QTY
PS-24AS 24 Vdc 500 mA	1
PS-24V2A 24 Vdc 2 A	1

Line Color Key	
<span style="color: red;">—</span>	Line Level Audio Signal
<span style="color: purple;">—</span>	Loudspeaker Level
<span style="color: yellow;">—</span>	Control Signal
<span style="color: blue;">—</span>	Video
<span style="color: green;">—</span>	Mic Level Audio Signal
<span style="color: brown;">—</span>	Ground
<span style="color: orange;">—</span>	Power
<span style="color: grey;">—</span>	Miscellaneous