



### Description:

This application provides multiple paging locations, with priority assigned to each location. Each location has a mic equipped with a PTT (push-to-talk) momentary pushbutton. The STM-2 preamp for each microphone should be installed near the associated mic. Wiring between each STM-2 output and the corresponding ST-VP2 is balanced, connected with shielded or unshielded twisted-pair cable. When any microphone is used, the music fades down and paging becomes active. The highest priority mic overrides the lower priority mic(s). This arrangement may be carried out for an unlimited number of paging locations.

The FP-PA20A 20 Watt Power Amplifier feeding 70 Volt speakers is used in this example. RDL offers a wide range of power amplifiers for paging and public address applications.

Parts List	
Product	QTY
FP-PA20A	1
STM-2	2
ST-VP2	2

Recommended Pwr. Supplies	
Product	QTY
PS-24V3A 24 Vdc 3 A	1

Note: If an STM-2 Mic Preamp is located separately from the other modules, it may be powered locally by using an additional PS-24AS.

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