Overview:

The MuxLab 70V Audio Converter may be paired with the 500755-AMP-RX and 500217 amplifiers to support 70V speaker systems at the amplifier output.

The 70V Audio Converter is a passive device and can be easily mounted anywhere near the amplifier that it is to be connected with. It adapts a standard 4 ohm amplifier output that has been configured in bridge mode (mono) to a 70V speaker system. 70V speaker systems allow multiple speakers to be chained together over much longer distances than traditional 4 ohm speakers can accommodate.

Applications:

Excellent for distributing speakers in:

- School intercom systems
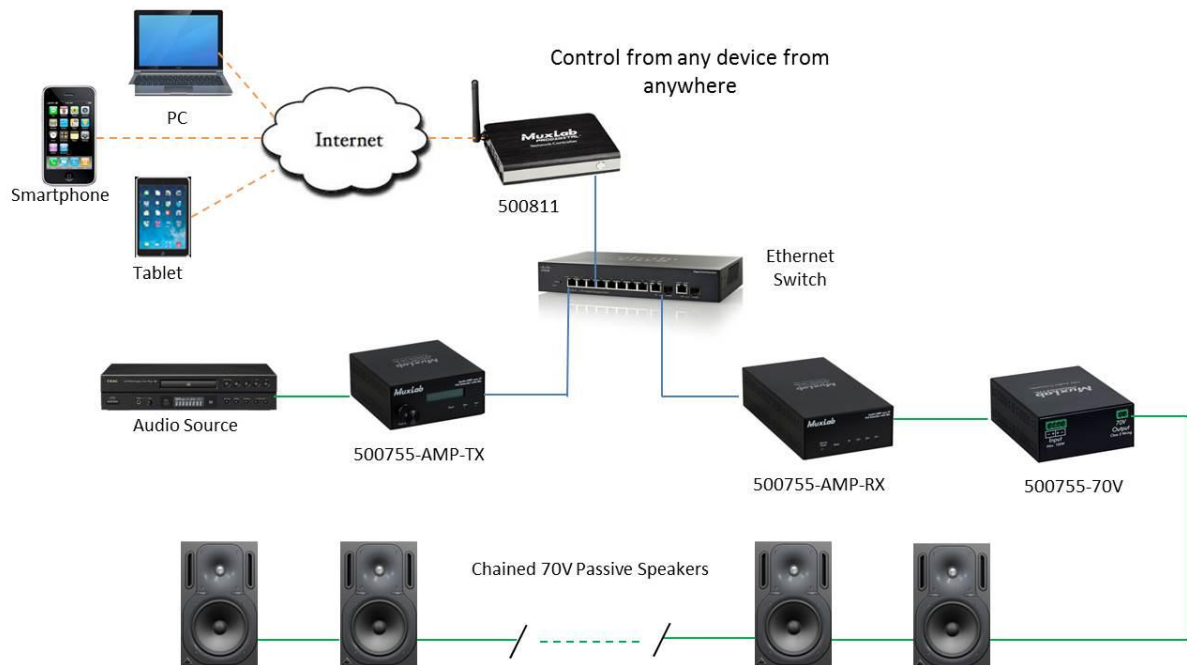- Auditoriums
- Large halls

Key Features:

- Adapt an amplifier's bridged 4 ohm speaker output to a 70V speaker system
- Daisy-chain multiple 70V speakers from one source over a distributed layout
- Extend speakers over long distances
- Connects with 500755-AMP in Bridge Mode configuration at 100W (mono)
- Connects with 500217 amplifier in Bridge Mode configuration at 100W (mono)
- Power not required

Typical Application

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Specifications	
Environment	Analog audio over 70V speaker systems
Devices	Amplifiers (in bridge mode) and 70V speaker systems
Transmission	Transparent to the user.
Signal Bandwidth	20Hz to 20KHz (mono)
Signals	Analog audio
Impedance	4 ohms
Signal Power	Up to 100W (with amplifier in bridge mode)
Connectors *Note: Cables not included.*	One (1) 4-pin phoenix connector for connecting to amplifiers in bridge mode (mono) One (1) 2-pin phoenix connector for chaining 70V speakers
Cable	Standard 2-wire speaker cable
Maximum Distance	(see table below)

Speaker Cable Transmission Distance as a Function of Conductor Size vs. Loss

Power Loss in Cable (% Loss & dB Loss)

	4 Ohm Speaker			8 Ohm Speaker			70V Speaker*		
	11%	21%	50%	11%	21%	50%	11%	21%	50%
AWG	0.5	1.0	3.0	0.5	1.0	3.0	0.5	1.0	3.0
6	277 ft	571 ft	1930 ft	554 ft	1141 ft	3859 ft	13580 ft	27965 ft	94548 ft
8	174 ft	359 ft	1214 ft	349 ft	718 ft	2428 ft	8546 ft	17598 ft	59498 ft
10	110 ft	226 ft	764 ft	219 ft	452 ft	1528 ft	5377 ft	11072 ft	37434 ft
12	69 ft	142 ft	480 ft	138 ft	284 ft	959 ft	3376 ft	6952 ft	23505 ft
14	43 ft	89 ft	302 ft	87 ft	179 ft	604 ft	2127 ft	4380 ft	14809 ft
16	27 ft	55 ft	185 ft	53 ft	110 ft	371 ft	1305 ft	2687 ft	9085 ft
18	17 ft	35 ft	117 ft	34 ft	69 ft	234 ft	823 ft	1694 ft	5726 ft
20	11 ft	22 ft	74 ft	21 ft	44 ft	147 ft	518 ft	1068 ft	3610 ft
22	7 ft	13 ft	46 ft	13 ft	27 ft	91 ft	321 ft	661 ft	2234 ft
24	4 ft	9 ft	29 ft	8 ft	17 ft	57 ft	202 ft	417 ft	1409 ft

The number of feet of cable you can run for a given loss and performance budget.

Power Source	None required (passive device)
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Dimensions	4.33" x 5.51" x 1.97" (11 x 14 x 5 cm)
Weight	3.08lbs (1.4kg)
Warranty	3 years
Order Information	500755-70V 70V Audio Converter (UPC: 627699717554)
Accessories (These items are sold separately)	500755-AMP AUDIO / AMP over IP PoE Extender 500920 16-Port Rackmount Transceiver Chassis 500917 Wall Mount Transceiver Bracket Kit

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