

INSTRUCTIONS

EMX-1.0

10-Port Emitter Expansion Terminator
Including PTP-1

1' Plug-to-Plug Jumper Cable

ELT02200



LIMITED 5-YEAR WARRANTY

SpeakerCraft warrants this product to be free of defects in materials or workmanship. This extends for five years from the date of purchase by the original consumer. Any products returned to SpeakerCraft and found to be defective by SpeakerCraft within the warranty period will be repaired or replaced, at SpeakerCraft's option, at no charge. SpeakerCraft will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state to state.



EMX-1.0 Ten-Port Emitter Expansion Terminator

The EMX-1.0 provides a quick and low cost means of expanding the number of emitters that can be driven from a SpeakerCraft AT-1.0 Amplified Terminator or other high IR output source in IR repeater systems. It is a passive expander that includes current sharing resistors at each Emitter jack allowing any combination of single or dual emitters to be used. A HIGH IR LOOP OUT is provided for daisy-chaining additional EMX-1.0's so that even more emitters can be driven (up to a max. of 50 emitters).

FEATURE DESCRIPTIONS

- 1. HIGH IR IN** – 3.5mm jack accepts IR drive from Blaster (BL ON setting) port on the AT-1.0 Amplified Terminator or other high IR output source.
- 2. EMITTER OUTPUTS** – Ten 3.5mm jacks drive any selection of single or dual emitters with current sharing resistors at medium power.
- 3. HIGH IR LOOP OUT** – 3.5mm jack allows High IR drive to be looped to additional EMX-1.0's for increased emitter expansion (up to 5 EMX-1.0's, 50 emitters MAX).
- 4. Adhesive Bottom Cover** – Protects the bottom of the PCB and also allows attachment of the EMX-1.0 to any flat, dry, clean surface. Simply peel-off the protective cover to expose the adhesive.
- 5. PTP-1 3.5mm Plug-to-Plug Cable** – Included 1 foot cable connects the EMX-1.0 to the AT-1.0 Amplified Terminator and for looping to additional EMX-1.0's.

SYSTEM CONNECTIONS

The following are typical applications of the EMX-1.0 in IR repeater systems.

A Basic Emitter Expansion System

Fig. 2 shows a typical installation, such as controlling a large group of components for duplication recording, etc.

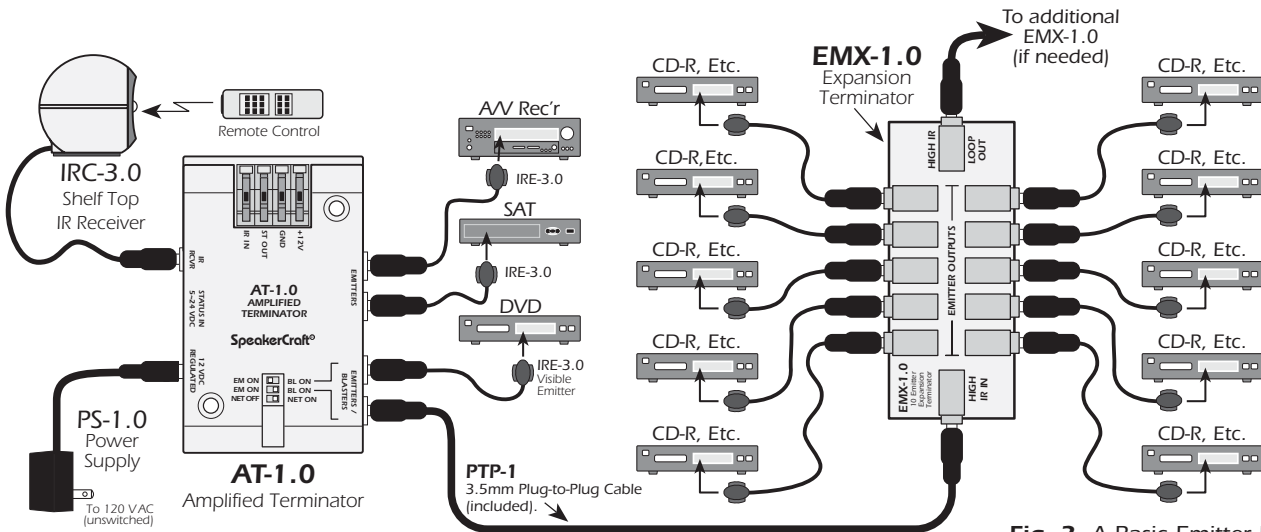


Fig. 2. A Basic Emitter Expansion System

1. Plug in the IR Receiver and Emitters into the AT-1.0 as shown.
2. Set the middle DIP switch on the AT-1.0 to the **BL ON** position.
3. Plug the PTP-1 cable into the lower EMITTERS/BLASTERS jack on the AT-1.0 and into the HIGH IR IN jack on the EMX-1.0 as shown.
4. Plug the remaining emitters into the EMX-1.0 EMITTER OUTPUT jacks.

Note 1: Since the EMX-1.0 employs emitter current sharing, you may use any of the IRE-1.0 and 2.0, 3.0, or 4.0 SpeakerCraft emitters in any combination you wish.

Note 2: Failure to place the DIP switch at the **BL-ON** position for the EMITTERS/BLASTERS jack that feeds the EMX-1.0 will result in insufficient power to drive the expansion emitters.

5. Plug in the Power Supply.

The AT-1.0 Amplified Terminator, in conjunction with the EMX-1.0 Expansion Terminator, should now control the components.

Looping to Additional EMX-1.0's

Fig. 3 shows how you can loop additional EMX-1.0's to control very large numbers of components.

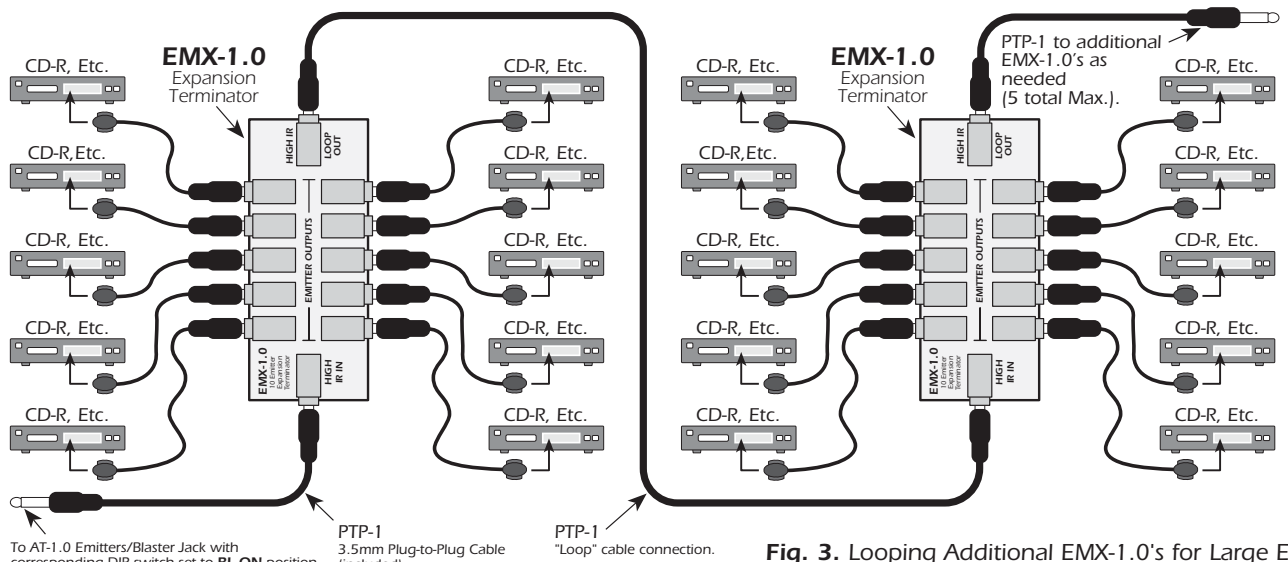


Fig. 3. Looping Additional EMX-1.0's for Large Expansions

To do this, simply use the PTP-1 Cable, supplied with each EMX-1.0, to loop each of the EMX-1.0's together as shown.

CAUTION: Use five EMX-1.0's max. with one AT-1.0 to drive a maximum of 50 emitters. Additional EMX-1.0's on one AT-1.0 may result in insufficient power to drive the emitters adequately. If more than 50 emitters are needed, use a second AT-1.0 to drive the additional EMX-1.0's (parallel the IR IN's & Gnds of the AT-1.0's terminals).

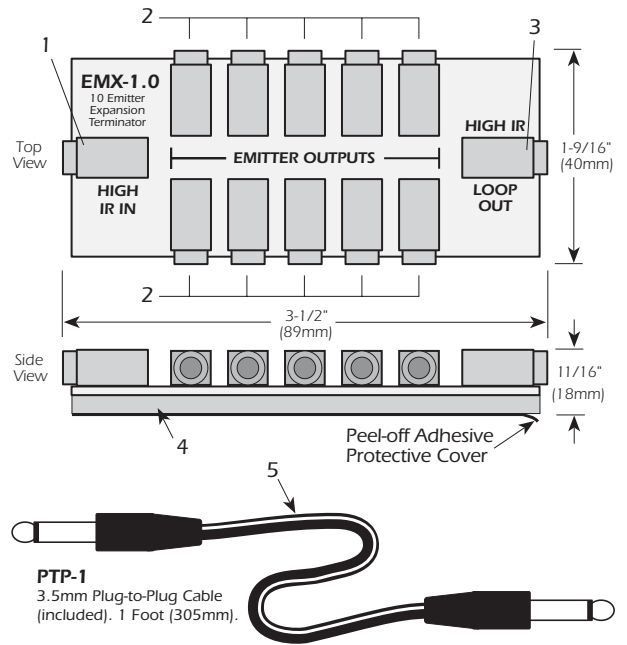


Fig. 1. The EMX-1.0