

Extron
DMP Expansion
and Software



Extron DMP Expansion and Software User Guide

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Extron

Extron DMP Expansion and Software



Specifications

- **Product:** Extron DMP 44 xi
- **Features:** 4x4 stand-alone audio matrix processor with DSP platform
- **Inputs:** Four line-level audio inputs (balanced or unbalanced)
- **Outputs:** Four line-level audio outputs (balanced or unbalanced)
- **Control:** Remote RS-232 port for control
- **Power Requirement:** 12V, 0.5A max

Product Usage Instructions

Installation

1. Disconnect power from all equipment.
2. (Optional) Mount the unit using Extron mounting brackets.
3. Connect audio inputs to line inputs (up to four devices).
4. Connect audio outputs to line outputs (up to four devices).
5. Connect digital inputs for external switches and sensors.
6. Connect a control device to the RS-232 port for device control.

Audio Input Wiring

For balanced input, use Tip-Ring-Sleeve configuration. For unbalanced input, use the Tip-Sleeve configuration. Ensure correct wiring and avoid tinning the wires.

Audio Output Wiring

- For balanced output, use Tip-Ring-Sleeve configuration. For unbalanced output, use Tip-NO Ground Here-Sleeve configuration.
- Make sure to follow proper wiring guidelines.

Digital Input Wiring

Connect configurable input ports as needed. Use the provided wiring guidelines for proper connection and avoid incorrect configurations.

Control Device Connection

Connect a control device to the RS-232 port for controlling the device using Simple Instruction Set commands or DSP Configurator Pro software.

Reset Button

Use the reset button to initiate resets when needed. Use a pointed stylus, ballpoint pen, or small screwdriver for reset operation.

FAQ

Q: Where can I find the complete user guide and specifications for the Extron DMP 44 xi?

A: Visit www.extron.com for the full user guide, installation instructions, and detailed specifications before connecting the product to power.

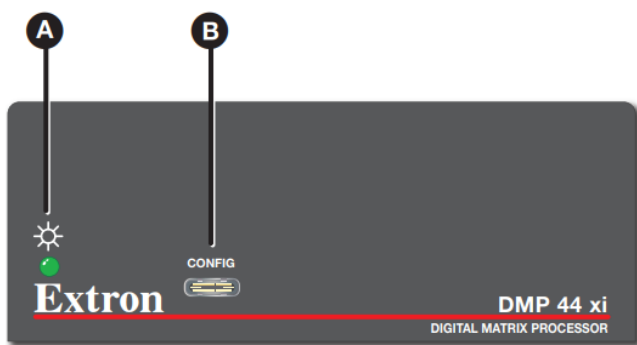
IMPORTANT NOTE:

Go to www.extron.com for the complete user guide, installation instructions, and specifications before connecting the product to the power source.

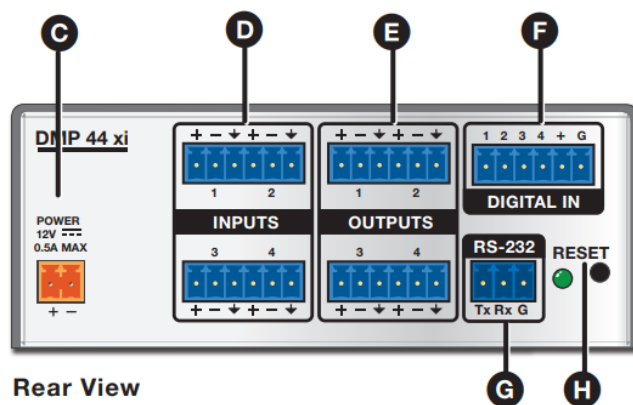


INTRODUCTION

- The Extron DMP 44 xi is a compact 4×4 stand-alone audio matrix processor featuring a digital signal processing (DSP) platform for audio signal routing, processing, and control.
- The device features four line-level audio inputs and outputs, all balanced or unbalanced. Several audio DSP tools are available for mixing, routing, and room optimization with quick and intuitive configuration using the DSP Configurator Pro software.
- This guide provides quick start instructions for an experienced installer to set up the Extron DMP 44 xi. For full installation, configuration, and operation details, see the DMP 44 xi User Guide, available at www.extron.com.



Front View

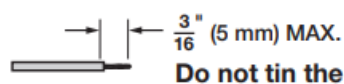


Rear View

- **A** Power LED
- **B** Configuration port
- **C** Power port
- **D** Line inputs 1-4
- **E** Line outputs 1-4
- **F** Digital inputs
- **G** Remote RS-232 port
- **H** Reset button and LED

Installation

1. Disconnect power from all equipment.
2. (Optional) Mount the unit to a rack or furniture using optional Extron mounting brackets and accessories (see www.extron.com to determine which optional mounting accessories are compatible).
3. Connect the audio input. Connect up to four balanced or unbalanced mono line-level input devices to line inputs (see Figure 1, D and the audio input wiring on the right).
4. Connect the audio output. For balanced or unbalanced audio output, connect up to four output devices to line output (see Figure 1, E and the audio output wiring on the right).
5. Connect the digital input. Up to four configurable input ports and a +5 V convenience port allow connection to various external switches and sensors for remote triggering of functions within the device (see Figure 1, F and the digital input wiring below).
 - The +5 VDC power pin is intended to provide power for illuminated switches used to control the digital inputs. The maximum current draw is 150 mA.

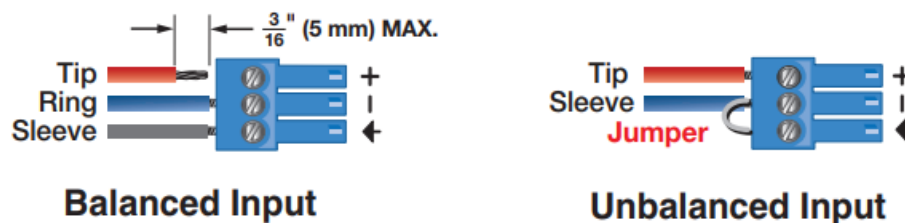


Do not tin the wires!



Digital Input Wiring

- **Audio Input Wiring**



Audio Output Wiring



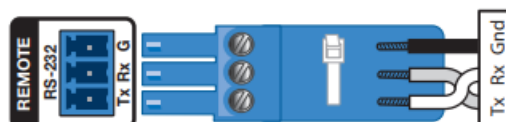
- **CAUTION** For unbalanced audio, connect the sleeve to the ground contact.
- DO NOT connect the sleeve to the negative (–) contacts.

6. Connect a control device, such as a computer, to one of the following ports to control the device using the Simple Instruction Set (SIST™) commands or DSP Configurator Pro.

- Remote RS-232 port (rear panel) — Connect a host device to this 3-pole 3.5mm captive screw port (see figure 1, G on page 1).
- The default baud rate is 38400, 1 stop bit, no parity, 8 data bits, and no flow control (see the image on the right for wiring details).

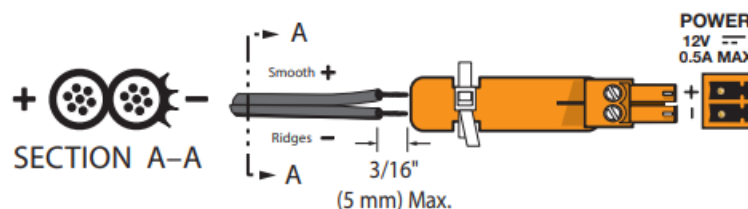
Configuration port (front panel) — Connect a computer to this USB-C port (see figure 1, B). Firmware can be updated through this port via Firmware Loader software (see the Firmware Loader Help File for details).

7. Reset button. The reset button (H) initiates two levels of resets. Use a pointed stylus, ballpoint pen, or small screwdriver to access the recessed button (see the DMP 44 xi User Guide for details on the different reset modes). The green LED indicates the reset mode that was used.



8. Connect power to the device by connecting the included 12 VDC external power supply to the rear Smooth panel power inlet (see C and the power supply wiring on the right).

- The power LED blinks during power up and Ridges firmware uploads and lights steadily when the device is SECTION A–A operational.



9. Install the software. Other than the reset button, there are no hardware controls for the device. All audio configurations and controls are done via software. Download the control software, DSP Configurator Pro, from the Extron website at www.extron.com. See the DMP 44 xi User Guide for details on installing the software and the DSP Configurator Pro Help File for all DSP operation descriptions.

Application Diagram

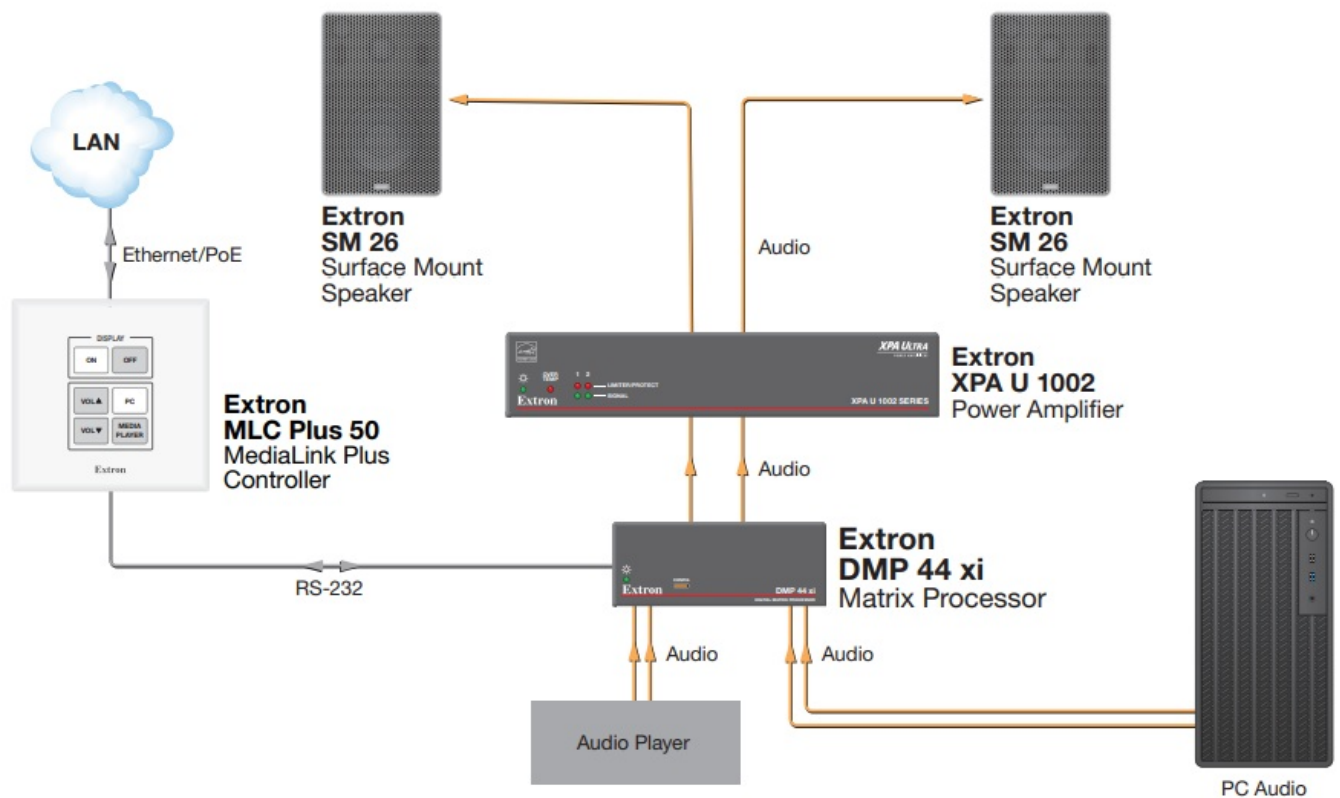


Figure 2. Typical DMP 44 xi Application Diagram

- For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the [Extron Safety and Regulatory Compliance Guide](#) on the Extron website.
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- Worldwide Headquarters: Extron USA West, 1025 E. Ball Road, Anaheim, CA 92805, 800.633.9876

Documents / Resources

	<p>Extron DMP Expansion and Software [pdf] User Guide DMP, DSP, 68-3736-50, DMP Expansion and Software, DMP, Expansion and Software, and Software, Software</p>
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References

- [Extron - The AV Technology Leader](#)
- [User Manual](#)

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