

 **kopul®**
RM-12XMR
J45 12
Channel
XLR
Network
Extender



kopul RM-12XMRJ45 12 Channel XLR Network Extender Instruction Manual

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kopul RM-12XMRJ45 12 Channel XLR Network Extender



Product Specifications

- Product Name: Pro Audio Solutions 12 Channel XLR Network Extender
- Model Numbers: RM-12XMRJ45, RM-12XFRJ45
- Compatibility: Dynamic and condenser microphones, DMX lights and controllers, AES/EBU, and analog audio signals
- Connector Types: XLR, RJ45, EtherCON

Product Usage Instructions

Setting Up

The extenders fit into any standard 19-inch instrument rack. Follow the steps below:

1. Unscrew the four screws on both sides of the extenders to reverse the rack ears.
2. Reverse the rack ears to make either side accessible from the front of your rack.
3. Replace the four screws, ensuring not to overtighten.

Connections

To connect the RM-12XMRJ45 and RM-12XFRJ45:

- Use a Cat 5, 5e, 6, or 7 ethernet cable.
- For condenser microphones, use shielded Cat 5e, Cat 6, or Cat 7 cables to receive phantom power.
- Connect the extenders with dynamic and condenser microphones, DMX lights, controllers, AES/EBU, and analog audio signals.

Ethernet Ports

Each extender has an input and through connector for each bank of four XLRs. Follow these guidelines:

- The INPUT port connects to XLR network extenders to transfer signals over an ethernet cable.
- The THRU port acts as a passthrough connector to feed XLR connectors to an additional destination.

Studio and Live Concert Applications

Use the extenders for various purposes including transferring signals to mixing boards, multitrack recorders, monitors, or PA systems.

DMX Lighting Applications

Connect DMX controllers to multiple lights while running AES/EBU and analog audio signals simultaneously.

Expanding Your Setup with the THRU Port

The THRU port adds XLR ports for additional versatility. Connect other XLR Network Extenders with CAT cables for more options.

Preexisting Cat Wiring

If your building has pre-wired Cat cabling, use the extenders to send audio between rooms.

Thank you for choosing Kopul.

- Kopul's 12-Channel XLR to RJ45 Network Cable Extenders are a simple and economical solution to replace heavy, bulky, and costly XLR and DMX snakes with thin, lightweight ethernet or etherCON cables. Link sound boards, PA systems, multitrack recorders, and DMX-equipped lights with clean and interference-free signals. Send all 12 channels to a single location, or create a customized audio snake to connect multiple destinations.
- Each ethernet cable provides four channels of balanced mic-level analog, AES/EBU, and DMX signals and extends the length of your cable runs without interference, signal loss, or added coloration. These passive network extenders require no external power to operate, and there's no digital audio conversion.

Precautions

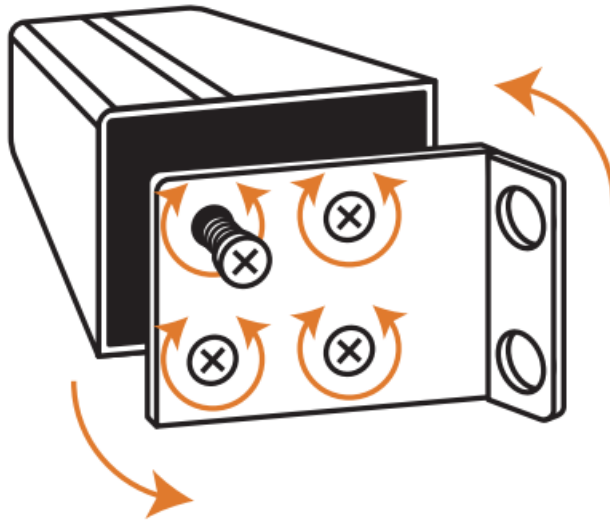
- Please read and follow these instructions, and keep this manual in a safe place.
- Do not attempt to disassemble or repair the equipment—doing so will void the warranty, and Kopul will not be responsible for any damage.
- Clean the unit with only a soft, dry cloth.
- Turn volume levels down or turn audio systems off before making connections to and from the Extender.
- A shielded Cat cable must be used in order to pass 48 V phantom power for a condenser microphone.
- All images are for illustrative purposes only.

Setting Up

The extenders fit into any standard 19-inch instrument rack.

Reversible Rack Ears

- The rack ears are reversible, so either side can be accessible from the front of your rack.
- Unscrew the four screws on both sides of the extenders and reverse the rack ears. Replace the four screws. Don't overtighten.

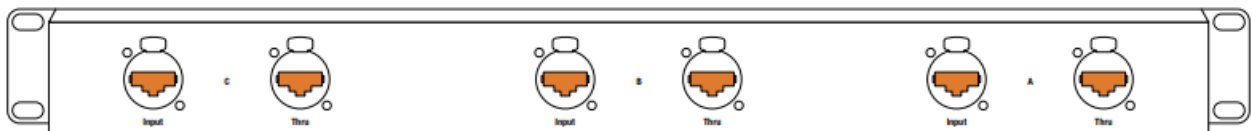


Connections

- Connect the RM-12XMRJ45 and RM-12XFRJ45 with a Cat 5, 5e, 6, or 7 ethernet cable. EtherCON cables provide a locking metal shell that protects the RJ45 connector.
- The RM-12XMRJ45 and RM-12XFRJ45 work with dynamic and condenser microphones.
- Condenser microphones can receive phantom power only over shielded Cat 5e, Cat 6, or Cat 7 ethernet cables. Check the cable's specs to ensure they're shielded.
- The RM-12XMRJ45 and RM-12XFRJ45 are compatible with DMX lights and controllers, as well as pro audio components that output AES/EBU and analog audio signals.

Ethernet Ports

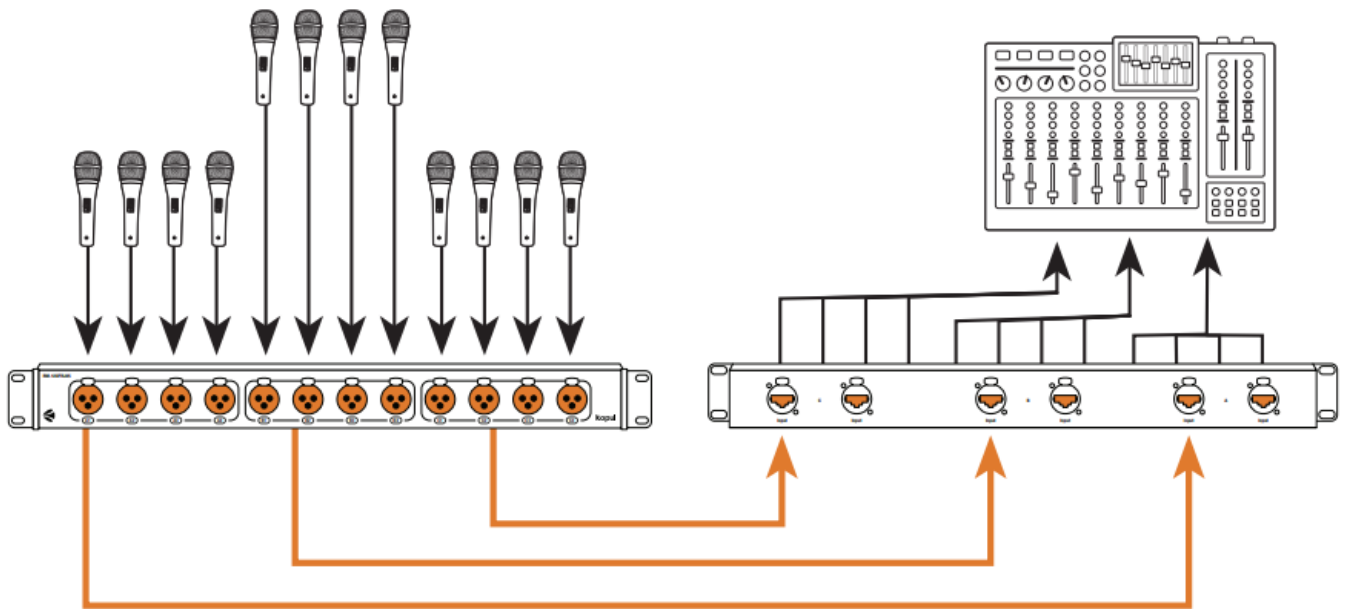
- Each extender has one input and one through connector for each bank of four XLRs.



- The INPUT port can be connected to any of Kopul's XLR network extenders to transfer the signal over an ethernet cable. This makes it possible to link the bank of XLRF connectors to the corresponding bank of XLRM connectors. Analog audio, AES/EBU, and
- DMX signals can be transferred simultaneously on a single ethernet cable.
- The THRU port is a passthrough connector, which allows you to feed the bank of XLR connectors to an additional destination. See Expanding Your Setup with the THRU Port below.

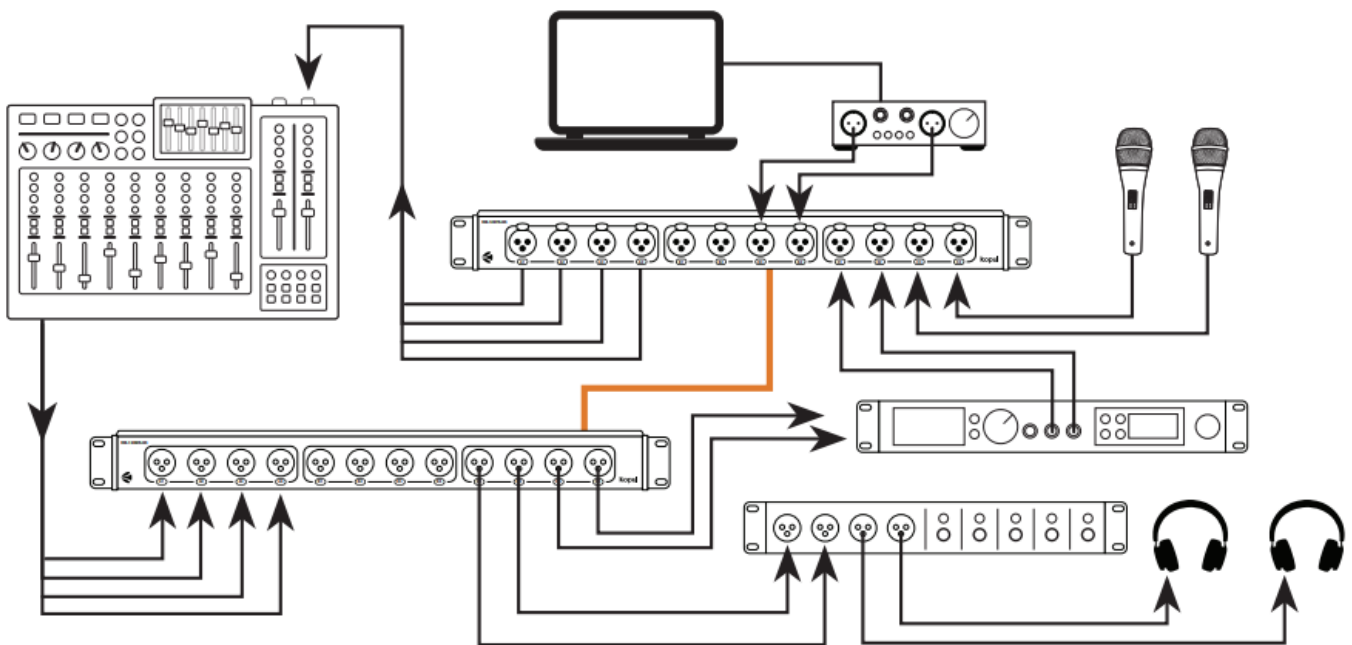
Studio and Live Concert Applications

The male and female network extenders can be used as simple inputs and outputs to transfer signals from a stage or studio to a mixing board, multitrack recorder, floor monitor, or PA system.



The extenders can be used for multiple purposes at once.

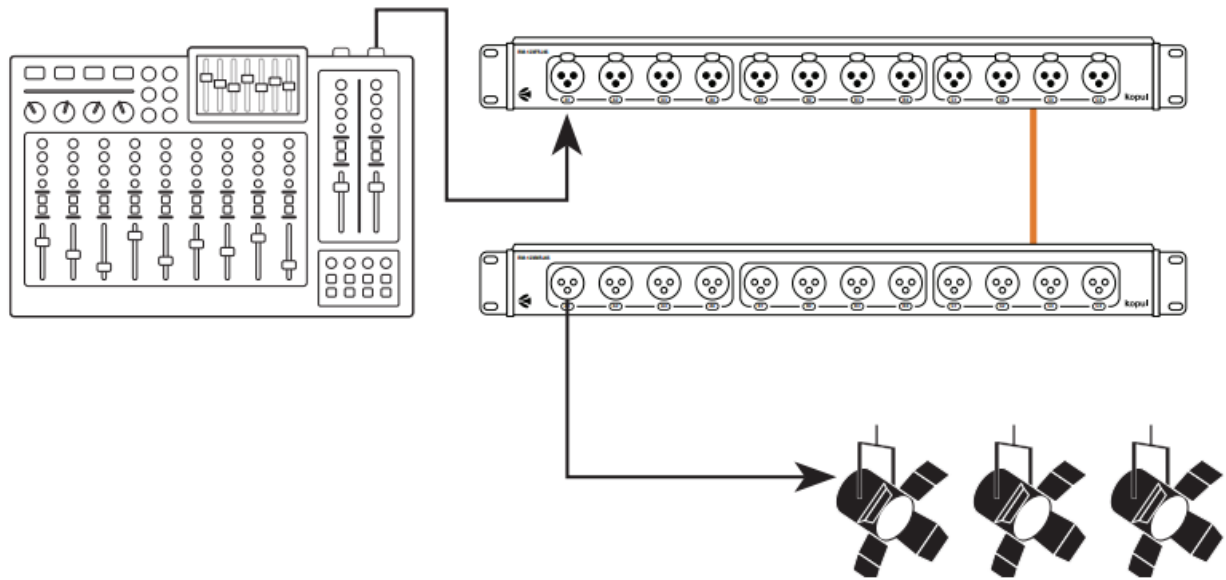
Note: Analog audio, AES/EBU, and DMX signals can be simultaneously transmitted on the same ethernet cable.



DMX Lighting Applications

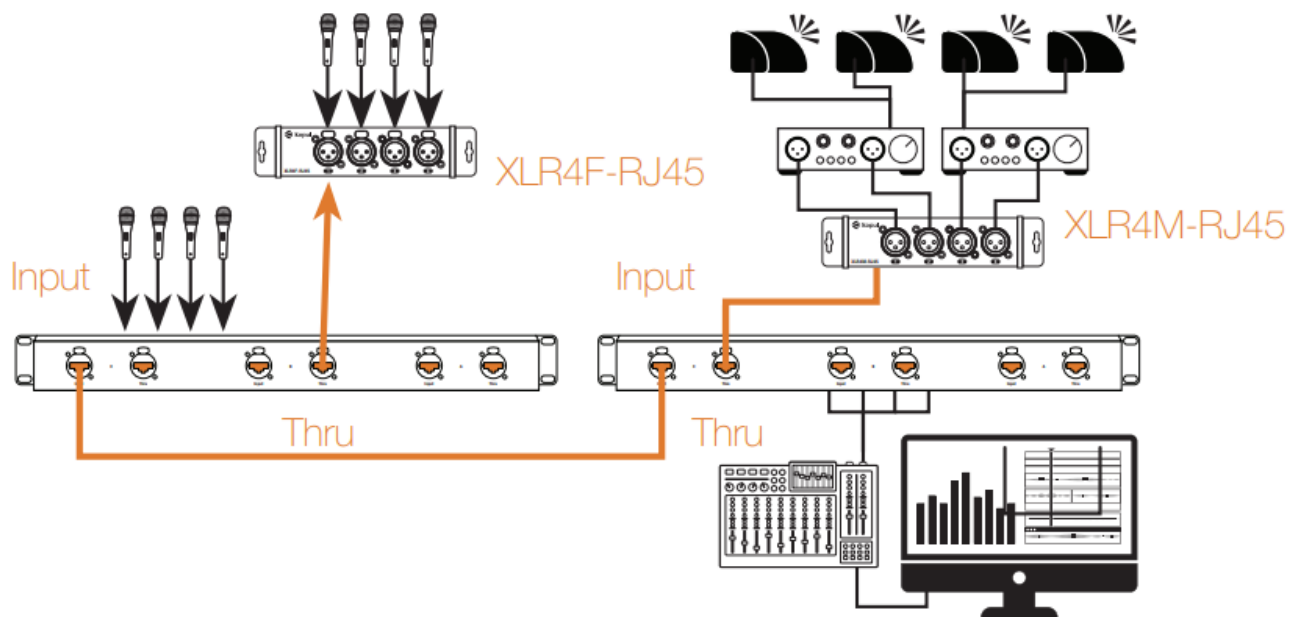
Connect a DMX controller to multiple DJ or theater lights.

Note: The network extenders accept multiple signal types. Run DMX controls and transfer AES/EBU and analog audio signals at the same time.



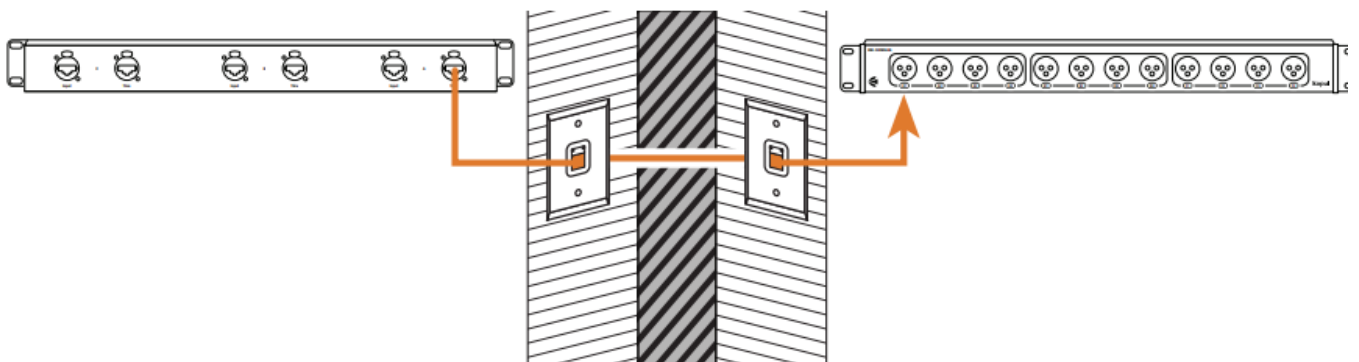
Expanding Your Setup with the THRU Port

The THRU port adds additional XLR ports to your setup. THRU ports allow you to create different regions on the stage or in the studio. Connect any of Kopul's XLR Network Extenders with CAT cables to options and versatility to your setup.



Preexisting Cat Wiring

Send audio from one room to another in a building that has pre-wired Cat 5, 5e, 6, or 7 cabling.



Note: Buildings with unshielded cabling will not pass phantom power and may be susceptible to interference.

Specifications

| | |
|------------------------------|---|
| Number of Channels | 12 |
| I/O | RM-12XMRJ45: 3-pin XLR Male (×12) RM-12XFRJ45: 3-pin XLR Female (×12) |
| Link | RJ45 (in/out ×3) RJ45 (through ×3) |
| Power Source | Passive |
| Signal | Analog Audio, AES/EBU, DMX |
| Supported Cable Types | RM-12XMRJ45: 3-pin XLR Male RM-12XFRJ45: 3-pin XLR Female Cat 5, Cat 5e, Cat 6, Cat 7 |
| Material | Steel |
| Color | Black |
| Dimensions | 1.75 × 19 × 3.5 in. (4.4 × 48.3 × 8.9 cm) |
| Weight | 2.7 lb. (1.2 kg) |

One-Year Limited Warranty

- This Kopul product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.
- This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

- To obtain warranty coverage, contact the Kopul Customer Service Department to obtain a return merchandise authorization (“RMA”) number, and return the defective product to Kopul along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser’s own risk and expense.

For more information or to arrange service, visit www.KopulCables.com or call Customer Service at [212-594-2353](tel:212-594-2353).

- Product warranty provided by the Gradus Group.
- www.gradusgroup.com
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FAQs

Q: Can I use unshielded cables for condenser microphones?

A: No, for condenser microphones, only use shielded Cat 5e, Cat 6, or Cat 7 cables to ensure proper phantom power delivery.

Q: Can I connect multiple types of signals simultaneously?

A: Yes, you can transfer analog audio, AES/EBU, and DMX signals simultaneously over the same ethernet cable using the extenders

Documents / Resources



[kopul RM-12XMRJ45 12 Channel XLR Network Extender](#) [pdf] Instruction Manual
1177246, RM-12XMRJ45 12 Channel XLR Network Extender, RM-12XMRJ45, 12 Channel XLR Network Extender, XLR Network Extender, Network Extender, Extender

References

- [Gradus | Gradus Group](#)
- [Kopul | Technology for Broadcast & Studio Applications](#)
- [User Manual](#)

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