

Pro Audio Solutions

12 Channel XLR Network Extender

User Manual



RM-12XMRJ45
RM-12XFRJ45





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.

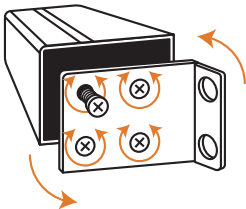
Setting Up

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.

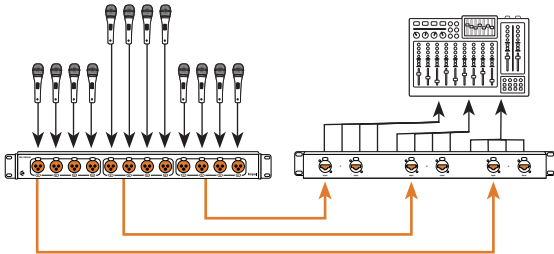


The INPUT port can be connected to any of Kopul's XLR network extenders to transfer the signal over an ethernet cable. This makes it possible to link the bank of XLRF connectors to the corresponding bank of XLRM connectors. Analog audio, AES/EBU, and DMX signals can be transferred simultaneously on a 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

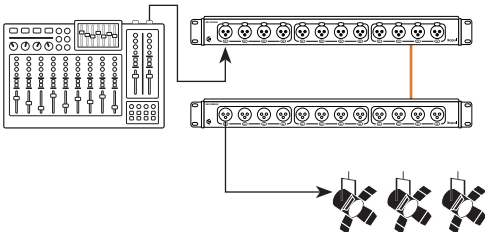
The male and female network extenders can be used as simple inputs and outputs to transfer signals from a stage or studio to a mixing board, multitrack recorder, floor monitor, or PA system.



DMX Lighting Applications

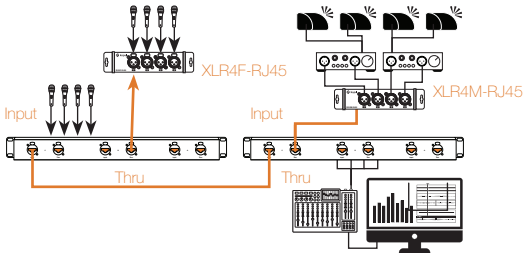
Connect a DMX controller to multiple DJ or theater lights.

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



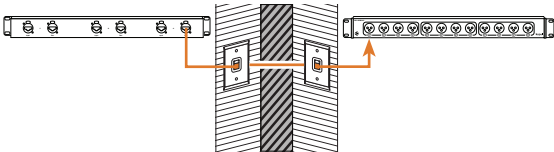
Expanding Your Setup with the THRU Port

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 (x12) RM-12XFRJ45: 3-pin XLR Female (x12)
Link	RJ45 (in/out x3) RJ45 (through x3)
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.

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

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