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Radial Engineering R800 8028

Radial Catapult MINI TX Cat 5 Audio Snake User Manual

Model: R800 8028

INTRODUCTION

The Radial Catapult MINI TX is a compact and robust 4-channel analog audio snake transmitter designed to send balanced audio signals over a standard Cat 5 or Cat 6 Ethernet cable. This device, when paired with a Catapult MINI RX unit (sold separately), provides a convenient and cost-effective solution for transmitting multiple audio channels over long distances, utilizing existing network infrastructure or dedicated Cat cable runs. Its passive design ensures high-fidelity audio transmission without the need for power.



Figure 1: Radial Catapult MINI TX unit, angled view, highlighting its compact design and branding.

KEY FEATURES

- **4-Channel Audio Transmission:** Supports four balanced analog audio signals.
- **Cat 5/6 Connectivity:** Utilizes standard Ethernet cables for signal transmission, offering flexibility and cost savings.
- **Passive Operation:** Requires no external power, simplifying setup and increasing reliability.
- **Compact and Durable Design:** Housed in a rugged steel enclosure, suitable for professional use.
- **XLR and RJ45 Connectors:** Standardized connectors for easy integration into existing audio systems.

SETUP INSTRUCTIONS

Setting up the Catapult MINI TX is straightforward. Ensure you have a Catapult MINI RX unit and a shielded Cat 5 or Cat 6 Ethernet cable of appropriate length for your application.

1. **Identify Components:** Locate the Catapult MINI TX (transmitter) and Catapult MINI RX (receiver) units. The TX unit typically has female XLR inputs, and the RX unit has male XLR outputs.
2. **Connect Audio Sources to TX:** Connect your balanced audio sources (e.g., microphones, preamps, mixing console outputs) to the four female XLR inputs on the Catapult MINI TX unit. Each input corresponds to a specific channel.



Figure 2: Catapult MINI TX with four XLR cables connected, illustrating the input setup.

3. **Connect Ethernet Cable:** Connect one end of a shielded Cat 5 or Cat 6 Ethernet cable to the RJ45 connector on the Catapult MINI TX unit.



Figure 3: End view of the Catapult MINI TX, highlighting the RJ45 and XLR connector ports.

4. **Connect RX Unit:** Connect the other end of the Ethernet cable to the RJ45 connector on the Catapult MINI RX unit.
5. **Connect Audio Destinations from RX:** Connect the male XLR outputs of the Catapult MINI RX unit to your audio destinations (e.g., mixing console inputs, audio interface inputs, powered speakers).
6. **Verify Connections:** Double-check all cable connections to ensure they are secure and correctly routed.

OPERATING INSTRUCTIONS

Once the Catapult MINI TX and RX units are connected, operation is automatic due to their passive design. No power or configuration is required.

- **Signal Flow:** Audio signals from your sources connected to the TX unit's XLR inputs will be transmitted over the Cat 5/6 cable to the RX unit, and then output via its XLR connectors.
- **Channel Mapping:** Each XLR input on the TX unit corresponds directly to an XLR output on the RX unit. Ensure your audio sources and destinations are connected to the correct channels.

- **Cable Length:** While Cat 5/6 cables can transmit signals over significant distances, extremely long runs (e.g., hundreds of feet) may introduce slight signal degradation. Test your setup with the intended cable length to ensure optimal performance.
- **Shielded Cable Requirement:** Always use shielded Cat 5 or Cat 6 cable for reliable and noise-free operation. Unshielded cables may introduce interference.

MAINTENANCE

The Radial Catapult MINI TX is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners or solvents.
- **Storage:** Store the unit in a dry environment, away from extreme temperatures and direct sunlight, when not in use.
- **Cable Inspection:** Periodically inspect your Cat 5/6 and XLR cables for any signs of wear, damage, or corrosion. Replace damaged cables immediately.
- **Connector Care:** Keep the XLR and RJ45 connectors free of dust and debris.

TROUBLESHOOTING

If you encounter issues with your Catapult MINI TX, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
No audio signal	Incorrect cable connection Damaged Cat 5/6 cable Unshielded Cat 5/6 cable Faulty XLR cable Source/destination device issues	Ensure all XLR and RJ45 cables are securely connected. Verify you are using a shielded Cat 5 or Cat 6 cable. Test cables individually with other equipment. Check power and settings of connected audio devices.
Hum or noise in audio	Unshielded Cat 5/6 cable Ground loop issues External electromagnetic interference	Ensure you are using a shielded Cat 5 or Cat 6 cable. Try isolating power supplies of connected equipment. Route Cat cable away from power lines or strong electromagnetic fields.
Intermittent signal	Loose cable connections Damaged cable or connector	Reseat all cables firmly. Inspect cables and connectors for physical damage. Replace if necessary.

SPECIFICATIONS

Feature	Detail
Model	R800 8028
Channels	4 (balanced analog audio)
Connector Type (Audio)	XLR Female (Input)
Connector Type (Data)	RJ45
Cable Requirement	Shielded Cat 5 or Cat 6 Ethernet cable
Operation	Passive (no power required)
Dimensions (L x W x H)	6.3 x 4.3 x 3 inches (approximate)

Feature	Detail
Weight	1.06 pounds (approximate)
Construction Material	Steel
Color	Blue

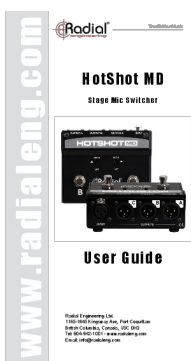


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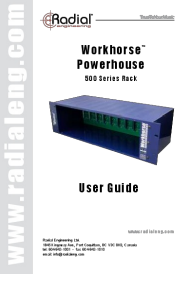
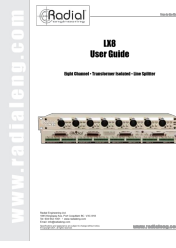
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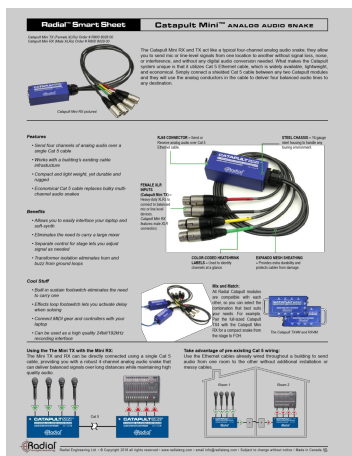
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Documents - Radial Engineering – R800 8028



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Radial Smart Sheet Catapult Mini TX Female XLRs Order # **R800 8028** 00 Catapult Mini RX Male XLRs Order # R800 8029 00 Catapult Mini analog audio snake The Catapult Mini RX and TX act like a typical four-channel analog audio snake; they allow you to send mic or line-level signals from one locatio...

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DINET DAN-TX2 + DAN-RX2

2-Channel Dante Interfaces

The Radial DINET™ DAN-TX2™ Transmitter and DAN-RX2™ receiver are expanded versions of the DAN-TX and DAN-RX Dante interfaces. Radial's Dante Interfaces can be used to connect up to 16 channels of Dante audio over a single Cat 5 cable. Both boxes deliver 24bit/96kHz resolution across any network using the Dante protocol.

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Radial Smart Sheet

Learn the Cat 5 Cable Snake Connection

Catapult Mini™ ANALOG AUDIO SNAKE

The Catapult Mini TX and RX act like a typical four-channel analog audio snake. They allow you to send mic or line-level signals from one location to another without signal loss, noise, or interference, and without any digital audio conversion needed. They make the Catapult system easier to install, connect, and troubleshoot. They're also more reliable, lightweight, and economical. Simply connect a standard Cat 5 cable between any two Catapult modules and you'll get the same results as if you had a four-channel analog audio snake.

Features

- Send four channels of analog audio over a single Cat 5 cable
- Works with a standard Cat 5 cable
- Catapult and light weight, and durable and rugged
- Standard Cat 5 cable replaces bulky multi-channel audio snake

Benefits

- Allows you to easily interface your system and cat
- Eliminates the need to carry a large cable
- Standard Cat 5 cable is easy to carry and easy to install
- Standard Cat 5 cable is easy to carry and easy to install

Using the Mini TX with the Mini RX

The Mini TX and RX are designed to be used together. They allow you to send four channels of analog audio over a single Cat 5 cable. They are designed to be used together. They allow you to send four channels of analog audio over a single Cat 5 cable.

See advantage of pre-wiring Cat 5 wiring

The Catapult system is designed to be used with pre-wired Cat 5 wiring. This allows you to send four channels of analog audio over a single Cat 5 cable. This allows you to send four channels of analog audio over a single Cat 5 cable.

[pdf] Datasheet

Product Data Sheet Radial Catapult Mini RX Compact 4 Channel Cat 5 Audio Snake Receiver Truth Seeker Productions GearTechs radial catapult mini cdn shopify s files 1 0290 4132 8221 |||

Radial Smart Sheet Catapult Mini TX Female XLRs Order # **R800 8028 00** Catapult Mini RX Male XLRs Order # R800 8029 00 Catapult Mini analog audio snake The Catapult Mini RX and TX act like a typical four-channel analog audio snake; they allow you to send mic or line-level signals from one location...

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