Icron ICR-3104

Icron ICR-3104 Raven USB 3-2-1 Extender System User Manual

Model: ICR-3104 | Brand: Icron

INTRODUCTION

The Icron USB 3-2-1 Raven 3104 is an advanced USB 3.1 extender system designed to extend all USB 3.1, 2.0, and 1.1 devices simultaneously up to 100 meters (328 feet) over a single CAT 6a/7 cable. This system utilizes Extreme USB-C technology, making it ideal for various applications including USB 3.1 conferencing cameras, flash drives, hard drives, keyboards, mice, interactive whiteboards, touchscreens, docking stations, USB to video converters, and audio devices. It provides a reliable and robust solution for extending USB connectivity over long distances.

PACKAGE CONTENTS

- Icron ICR-3104 Local Extender (LEX) Unit
- Icron ICR-3104 Remote Extender (REX) Unit
- Power Adapter(s)
- USB 3.1 Cable
- Quick Start Guide (not included in this manual)

SETUP AND INSTALLATION

Follow these steps to set up your Icron ICR-3104 Raven USB 3-2-1 Extender System:

1. **Connect the Local Extender (LEX) to the Host Computer:**
   Connect one end of the provided USB 3.1 cable to the USB port on the LEX unit and the other end to an available USB 3.1 port on your host computer.

2. **Connect USB Devices to the Remote Extender (REX):**

Connect your USB 3.1, 2.0, or 1.1 devices (e.g., cameras, keyboards, mice, flash drives) to the USB ports on the REX unit.

3. **Connect LEX and REX with CAT Cable:**

   Connect a single CAT 6a or CAT 7 Ethernet cable (up to 100 meters / 328 feet) between the "Link" ports on both the LEX and REX units. Ensure the cable is properly terminated and meets the specified category requirements for optimal performance.

4. **Connect Power Adapters:**

   Connect the power adapter(s) to the power input jack(s) on both the LEX and REX units, then plug them into a power outlet. The system will power on automatically.

Figure 1: The Icron ICR-3104 Raven USB 3-2-1 Extender System. This image displays two units stacked, showcasing their various ports. The top unit (Local Extender or LEX) has a LAN port, a Link port, a USB 3.1 Type-B port for host connection, and a 24V 1A power input. The bottom unit (Remote Extender or REX) features a LAN port, a Link port, multiple USB 3.1 Type-A ports for connecting peripheral devices, and a 24V 2.71A power input. Both units are silver-colored with heat dissipation fins on the sides.

OPERATING INSTRUCTIONS

The Icron ICR-3104 system is designed for plug-and-play operation. Once all connections are made and power is supplied, the system will automatically detect and extend the connected USB devices.

- **Automatic Device Detection:** The system automatically detects and configures connected USB 3.1, 2.0, and 1.1 devices.
- **Full Bandwidth:** The extender supports the full bandwidth of USB 3.1 Gen 1 (5 Gbps) over the extended distance.
- **LED Indicators:** Observe the LED indicators on the units for connection status. A solid 'Link' LED typically indicates a successful connection between the LEX and REX units.

MAINTENANCE

The Icron ICR-3104 Raven USB 3-2-1 Extender System requires minimal maintenance. Follow these guidelines to ensure its longevity and optimal performance:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid cleaners or

aerosols, as they may damage the components.

- **Environment:** Operate the system in a clean, dry environment, away from direct sunlight, excessive heat, and moisture.
- **Ventilation:** Ensure that the ventilation openings on the units are not blocked to prevent overheating.
- **No User-Serviceable Parts:** Do not attempt to open or repair the units. Refer all servicing to qualified service personnel.

TROUBLESHOOTING

If you encounter issues with your Icron ICR-3104 system, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power to units.	Power adapters not connected or faulty outlet.	Ensure power adapters are securely connected to both units and a working power outlet. Check the power outlet with another device.
USB devices not detected.	Incorrect cable connection, faulty CAT cable, or incompatible device.	- Verify all cables (USB, CAT, power) are securely connected. - Ensure the CAT cable is CAT 6a or CAT 7 and is not damaged. - Test the USB device directly with the host computer to confirm it functions independently. - Try connecting a different USB device to the REX unit.
Intermittent connection or slow performance.	Poor quality CAT cable, excessive cable length, or electromagnetic interference.	- Use a high-quality, shielded CAT 6a or CAT 7 cable. - Ensure the cable length does not exceed 100 meters. - Relocate the units away from sources of strong electromagnetic interference.

If the problem persists after trying these steps, please contact Icron technical support for further assistance.

SPECIFICATIONS

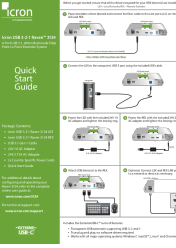| Feature	Detail
Model	ICR-3104
Brand	Icron
USB Standard Support	USB 3.1 Gen 1 (5 Gbps), USB 2.0, USB 1.1
Extension Distance	Up to 100 meters (328 feet)

Feature	Detail
Extension Cable Type	CAT 6a or CAT 7 Ethernet cable
Hardware Interface	USB, Ethernet
Special Feature	Plug and Play
Compatible Devices	USB 3.1 conferencing cameras, flash drives, hard drives, keyboards, mice, interactive whiteboards, touchscreens, docking stations, USB to video converters, audio devices, and other USB 3, 2, and 1 devices.
Product Dimensions	91 x 54 x 13 inches
Item Weight	7.07 pounds
Manufacturer	Icron
First Available Date	August 12, 2020

WARRANTY AND SUPPORT

Icron products are designed for reliability and performance. For specific warranty information regarding your ICR-3104 Raven USB 3-2-1 Extender System, please refer to the warranty card included with your product or visit the official Icron website. Warranty terms typically cover defects in materials and workmanship under normal use.

For technical support, troubleshooting assistance, or to inquire about repairs, please contact Icron's customer support. Contact information can usually be found on the manufacturer's website or in the product packaging. When contacting support, please have your product model number (ICR-3104) and serial number ready.

Online Resources: For the latest drivers, firmware updates, and additional documentation, please visit the official Icron support page.

Related Documents - ICR-3104

Icon USB 3-2-1 Raven™ 3104 Pro

4-Port USB 3.2, 100m CAT 6a/7
Point-to-Point Extender System
User Guide

[Icron USB 3-2-1 Raven 3104 Pro User Guide: 100m CAT 6a/7 USB 3.2 Extender System](#)
Comprehensive user guide for the Icron USB 3-2-1 Raven 3104 Pro, a 4-port USB 3.2, 100m CAT 6a/7 point-to-point extender system. Includes installation, setup, troubleshooting, and specifications.

[Icron USB 3-2-1 Raven 3124 Quick Start Guide and Compliance Information](#)
Quick start guide and compliance information for the Icron USB 3-2-1 Raven 3124, a 4-Port USB 3.1, 200m Multimode Fiber Point-to-Point Extender System. Includes setup instructions, package contents, features, and warranty details.

User Guide

USB 3-2-1 Raven™ 3204C
4-Port USB 3.1 5Gbps Fiber CAT 6a/7 USB-C
Point-to-Point Extender System

[Icron USB 3-2-1 Raven 3204C 4-Port USB 3.1 Extender System User Guide](#)
Comprehensive user guide for the Icron USB 3-2-1 Raven 3204C, a 4-port USB 3.1 (5Gbps) 100m CAT 6a/7 USB-C point-to-point extender system. Includes installation, troubleshooting, specifications, and warranty information.

USB 2.0 RG2311

1-Port USB 2.0 100m (330'l) CAT 5e/6/7
Extender System with Flexible Power

Quick
Start
Guide

[USB 2.0 RG2311 Extender System Quick Start Guide - Icron](#)
Quick start guide for the Icron USB 2.0 RG2311 1-Port USB 2.0 100m CAT 5e/6/7 Extender System with Flexible Power. Includes setup instructions, product contents, and compliance information.

USB 2.0 RG2301 Series

1-Port USB 2.0 CAT 5e/6/7 and Gigabit Ethernet LAN
Extender Systems
User Guide

[Icron USB 2.0 RG2301 Series Extender Systems User Guide](#)
This user guide provides detailed information on the Icron USB 2.0 RG2301 Series, including installation instructions, features, troubleshooting, and specifications for 1-Port USB 2.0 CAT 5e/6/7 and Gigabit Ethernet LAN Extender Systems.

USB Rover® 2850

2-port USB 1.1 40m Cat 5 Extender

User Guide

[Icron USB Rover 2850 User Guide: Extend USB 1.1 Devices Up to 40m](#)
User guide for the Icron USB Rover 2850, a 2-port USB 1.1 extender. Learn about installation, requirements, troubleshooting, and specifications for extending USB devices up to 40 meters over Cat 5 cable.