Icron Ranger 2304

Icron Ranger 2304 4-Port USB 2.0 100 Meter Cat 5e Extender System Instruction Manual

Brand: Icron | Model: Ranger 2304

PRODUCT OVERVIEW

The Icron Ranger 2304 is a four-port USB 2.0 extender system designed to provide true USB 2.0 extension at speeds up to 480Mbps over Cat 5e cabling. This system operates without the need for supplementary software drivers, offering a true plug-and-play solution. It is compatible with all leading operating systems, including Windows, macOS, and Linux, and supports a wide range of USB 3.0 (at USB 2.0 speeds), 2.0, and 1.1 peripherals such as keyboards, webcams, mice, flash drives, and interactive whiteboards. The integrated four-port hub allows for the extension of up to four USB devices simultaneously. The Ranger 2304 features an ASIC-based design, an updated Cypress USB hub, and Realtek internal Ethernet PHY for reliable performance.

PACKAGE CONTENTS

- 1 x Icron Ranger 2304 Local Extender (LEX) Unit
- 1 x Icron Ranger 2304 Remote Extender (REX) Unit with 4-port USB hub
- 1 x USB 2.0 Cable (Type A to Type B)
- 1 x 24V 1A DC Power Adapter
- Mounting brackets and screws
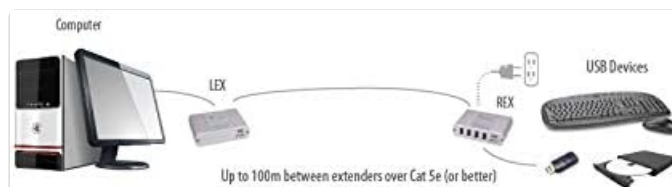- User Manual

Image: The Icron Ranger 2304 extender system components neatly packaged in its box, including the LEX and REX units, power

adapter, and cables.

Setup Instructions

1. **Connect the Local Extender (LEX) to your Computer:** Use the provided USB 2.0 Type A to Type B cable. Plug the Type B end into the "USB Host" port on the LEX unit and the Type A end into an available USB port on your computer.
2. **Connect the Remote Extender (REX) to Peripherals:** Plug your USB 2.0 (or USB 3.0/1.1 peripherals operating at USB 2.0 speeds) devices (e.g., keyboard, mouse, webcam, flash drive) into the four USB 2.0 ports on the REX unit.
3. **Connect the Power Adapter to the REX Unit:** Plug the 24V 1A DC power adapter into the power input port on the REX unit.
4. **Connect LEX and REX Units via Cat 5e Cable:** Use a standard Cat 5e (or better) Ethernet cable (up to 100 meters / 330 feet, not included) to connect the "UTP Out" port on the LEX unit to the "UTP In" port on the REX unit.
5. **Verify Connection:** Once all connections are made, check the status indicator lights on both the LEX and REX units. A solid green light typically indicates a successful connection and normal operation.

Image: A diagram illustrating the connection of the Icron Ranger 2304 system. The Local Extender (LEX) connects to the computer via USB, and the Remote Extender (REX) connects to USB devices. Both LEX and REX units are linked by a Cat 5e cable, with the REX unit receiving power.

Your browser does not support the video tag.

Video: This video demonstrates the setup and connection process for a USB extender, showing how to link the transmitter and receiver units using a Cat5e/Cat6 cable and connect USB devices.

Operating Instructions

The Icron Ranger 2304 is designed for plug-and-play operation. Once properly connected and powered, your computer should automatically detect the extended USB devices without requiring any additional driver installation. The system transparently extends the USB 2.0 signal, allowing you to use your peripherals as if they were directly connected to your computer.

- **Plug-and-Play:** No software drivers are required for basic operation.
- **Device Compatibility:** Supports all USB 3.0 (at USB 2.0 speeds), 2.0, and 1.1 devices.
- **Multi-Device Support:** The REX unit features an integrated four-port hub, allowing simultaneous connection of up to four USB devices.
- **Operating Systems:** Compatible with Windows, macOS, and Linux operating systems.

Your browser does not support the video tag.

Video: This video provides a detailed guide on how to use a USB extender over Cat6, covering unboxing, component overview, and a practical demonstration of connecting various USB devices.

SPECIFICATIONS

Feature	Detail
Brand	Icron
Model	Ranger 2304
USB Standard	USB 2.0 (supports USB 3.0 at USB 2.0 speeds)
Data Transfer Rate	Up to 480Mbps
Extension Distance	Up to 100 meters (330 feet)
Cable Type	Cat 5e (or better) Ethernet cable
USB Ports (REX)	4 x USB 2.0 ports
Operating System Compatibility	Windows, macOS, Linux
Power Supply	24V 1A DC Adapter
Item Weight	1.95 pounds
Package Dimensions	9.7 x 7.75 x 3 inches

WARRANTY AND SUPPORT

The Icron Ranger 2304 4-Port USB 2.0 100 Meter Cat 5e Extender System comes with a **3-Year Manufacturer's Warranty**. For technical support or warranty claims, please refer to the contact information provided in your product packaging or visit the official Icron website.