

# USB 2.0 Ranger® 2312

## 2-Port USB 2.0 100m CAT 5e/6/7 Extender System with Flexible Power

The USB 2.0 Ranger® 2312 extends high-speed USB 2.0 connections up to 100m using CAT 5e/6/7 with the option to power at either the LEX (Local Extender) or REX (Remote Extender). It features full device and host support as well as Mass Storage Acceleration for improved USB 2.0 device bulk transfer speeds over previous generation extenders and the ExtremeUSB® suite of features.



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LEX

REX



### Features

The Ranger 2312 is ideal for extending USB peripherals including: keyboards, mice, interactive whiteboards, flash drives, hard drives, audio devices, web cameras and any other USB device.

- Flexible power — connect the power adapter to either the LEX or REX
- Supplies up to 1.5 Amps total when both USB ports are in use
- Mass Storage Acceleration for USB 2.0 device bulk transfer speeds
- Supports throughputs of up to 480Mbps
- FCC/CE Class B

Includes the ExtremeUSB® suite of features:

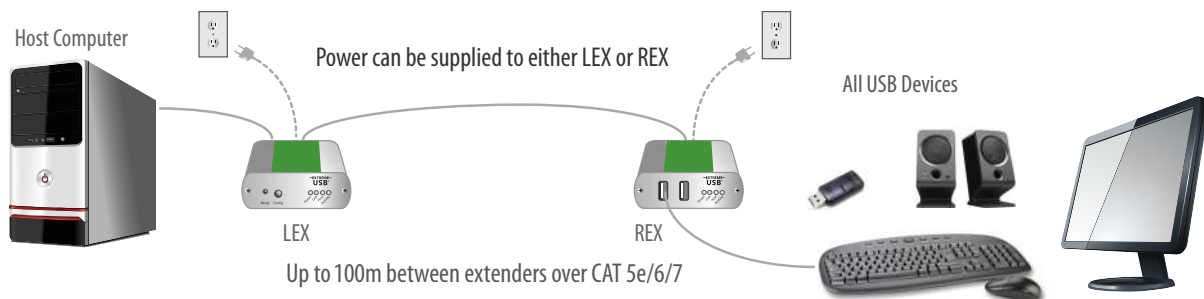
- Transparent USB extension
- Plug and play; no software drivers required
- Works with all major operating systems: Windows®, macOS™, Linux® and Chrome OS™

### Applications

- Interactive white board
- Keyboard and mouse extension
- Sensor/data acquisition
- Industrial control

←EXTREME  
USB®

Specifications subject to change  
without notification.  
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Icron Technologies Corp.  
Now Part of Maxim Integrated  
#90-01512-A02



# USB 2.0 Ranger® 2312 Specifications

## RANGE

Direct Connect: Up to 100m (330 ft) over solid core CAT 5e/6/7

## USB DEVICE SUPPORT

USB 2.0 Throughputs: Up to 480Mbps

USB 1.1 Throughputs: Up to 12Mbps

## POWER

Power Supply: 100-240V AC Input, 24V 1A DC Output

## LEX (LOCAL EXTENDER)

USB Connector: 1 x USB Type B Receptacle

Link Connector: 1 x RJ45

Dimensions: 87.0mm x 75.0mm x 26.0mm (3.4" x 3.0" x 1.0")

Mounting: Slots for Cable Ties or Optional Mounting Kit available

Enclosure Material: Silver Anodized Aluminum

## REX (REMOTE EXTENDER)

USB Connectors: 2 x USB Type A Receptacle

Link Connector: 1 x RJ45

Available Current: Up to 1 Amp per USB port, 1.5 Amps total shared

Dimensions: 87.0mm x 75.0mm x 26.0mm (3.4" x 3.0" x 1.0")

Mounting: Slots for Cable Ties or Optional Mounting Kit available

Enclosure Material: Silver Anodized Aluminum

## ENVIRONMENTAL

Operating Temperature: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -20°C to 70°C (-4°F to 158°F)

Operating Humidity: 20% to 80% relative humidity, non-condensing

Storage Humidity: 10% to 90% relative humidity, non-condensing

## COMPLIANCE

EMC: FCC (Class B), CE (Class B)

Environmental: RoHS2 (CE)

## SUPPORT

Warranty: 2-year



## Ordering Information

The USB 2.0 Ranger® 2312 system includes a LEX, REX, USB 2.0 Cable, Quick Start Guide, international power adapter with country specific power cord and two-year warranty. For more information, email [lcronSales@MaximIntegrated.com](mailto:lcronSales@MaximIntegrated.com) or call +1 604 638 3920.

| PART #   | NAME                       | DESCRIPTION                                                                                          |
|----------|----------------------------|------------------------------------------------------------------------------------------------------|
| 00-00406 | USB 2.0 Ranger® 2312 - NA  | 2-Port USB 2.0 Flexible Power CAT 5e/6/7 100m Extender System, 100-240V Power Adapter, NA Power Cord |
| 00-00407 | USB 2.0 Ranger® 2312 - EU  | 2-Port USB 2.0 Flexible Power CAT 5e/6/7 100m Extender System, 100-240V Power Adapter, EU Power Cord |
| 00-00408 | USB 2.0 Ranger® 2312 - UK  | 2-Port USB 2.0 Flexible Power CAT 5e/6/7 100m Extender System, 100-240V Power Adapter, UK Power Cord |
| 00-00409 | USB 2.0 Ranger® 2312 - AU  | 2-Port USB 2.0 Flexible Power CAT 5e/6/7 100m Extender System, 100-240V Power Adapter, AU Power Cord |
| 00-00410 | USB 2.0 Ranger® 2312 - JP  | 2-Port USB 2.0 Flexible Power CAT 5e/6/7 100m Extender System, 100-240V Power Adapter, JP Power Cord |
| 10-00535 | USB Mounting Kit (2301/12) | USB Extender Mounting Kit for 2301/2312 (Silver) - set of two brackets and hardware                  |