

# USB 2.0 Ranger® 2324/2344 Extenders

## 4-port USB 2.0 Fiber Extender Systems

The USB 2.0 Ranger® 2324 extends high-speed USB 2.0 connections up to 500m using multimode fiber while the USB 2.0 Ranger 2344 extends up to 10km over singlemode fiber optics.

LEX

REX



## Features

The Ranger 2324 and Ranger 2344 are ideal for extending USB peripherals including: keyboards, mice, interactive whiteboards, flash drives, hard drives, audio devices, web cameras and any other USB device across a dedicated fiber optic connection. Key features include:

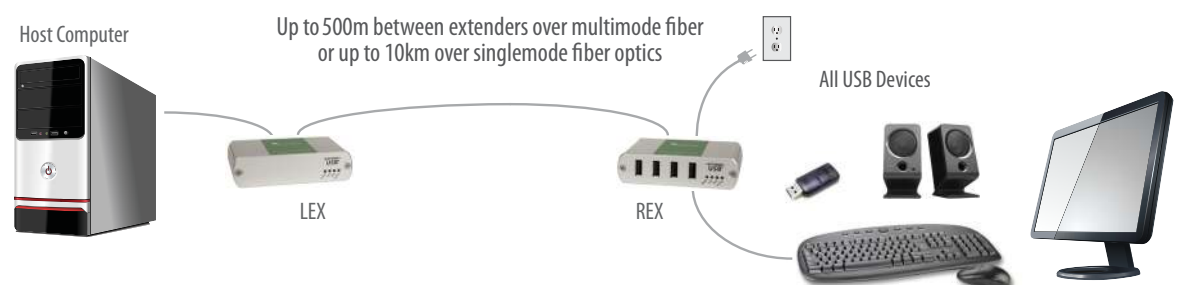
- Supports USB 2.0 throughputs of up to 480Mbps
- Supplies up to 1 Amp per USB port; 600mA when all four ports are used concurrently
- Integrated hub provides ports for four USB devices, use hubs to add more
- Electrical isolation
- Reliable operation with USB 2.0 and 1.1 devices and hubs

Includes the ExtremeUSB® suite of features:

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

## Applications

- Medical
- Keyboard and mouse extension
- Sensor/data acquisition
- Industrial control



Now Part of Maxim Integrated

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USB

Specifications subject to  
change without notification.  
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#90-01484-A02

# USB 2.0 Ranger® 2324/2344 Specifications

Ranger 2324



Ranger 2344



## DISTANCE

Ranger 2324:

Up to 500m over Multimode Fiber (OM2+)

Ranger 2344:

Up to 10km over Singlemode Fiber

## USB DEVICE SUPPORT SPEEDS

Maximum Throughputs:

USB 2.0: Up to 480Mbps, USB 1.1: Up to 12Mbps

Traffic Types:

All USB 2.0 and 1.1 Traffic Types

Device Types:

All USB 2.0 and 1.1 Device Types

Maximum Number:

Up to 30 devices

## LEX (LOCAL EXTENDER)

USB Connector:

1 x USB Type B Receptacle

Link Connector:

1 x SFP Duplex LC

Dimensions:

100.0mm x 76.0mm x 26.0mm (3.9" x 3.0" x 1.0")

Enclosure Material:

Silver Anodized Aluminum

## REX (REMOTE EXTENDER)

USB Connectors:

4 x USB Type A Receptacles

Link Connector:

1 x SFP Duplex LC

Dimensions:

100.0mm x 76.0mm x 26.0mm (3.9" x 3.0" x 1.0")

Enclosure Material:

Silver Anodized Aluminum

Available Current:

Up to 600mA to each USB port concurrently

Power Supply:

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

## 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

Both USB 2.0 Ranger 2324 and Ranger 2344 systems include a LEX, REX, USB 2.0 cable, Quick Start Guide, an international power adapter with country specific power cord and 2-year warranty. For more information email [lcronSales@MaximIntegrated.com](mailto:lcronSales@MaximIntegrated.com) or call +1 604 638 3920.

| PART #   | NAME                     | DESCRIPTION                                                                                       |
|----------|--------------------------|---------------------------------------------------------------------------------------------------|
| 00-00411 | USB 2.0 Ranger 2324 - NA | 4-Port USB 2.0 500m Multimode Fiber Optic Extender System, 100-240V Power Adapter, NA Power Cord  |
| 00-00412 | USB 2.0 Ranger 2324 - EU | 4-Port USB 2.0 500m Multimode Fiber Optic Extender System, 100-240V Power Adapter, EU Power Cord  |
| 00-00413 | USB 2.0 Ranger 2324 - UK | 4-Port USB 2.0 500m Multimode Fiber Optic Extender System, 100-240V Power Adapter, UK Power Cord  |
| 00-00414 | USB 2.0 Ranger 2324 - AU | 4-Port USB 2.0 500m Multimode Fiber Optic Extender System, 100-240V Power Adapter, AU Power Cord  |
| 00-00415 | USB 2.0 Ranger 2324 - JP | 4-Port USB 2.0 500m Multimode Fiber Optic Extender System, 100-240V Power Adapter, JP Power Cord  |
| 00-00416 | USB 2.0 Ranger 2344 - NA | 4-Port USB 2.0 10km Singlemode Fiber Optic Extender System, 100-240V Power Adapter, NA Power Cord |
| 00-00417 | USB 2.0 Ranger 2344 - EU | 4-Port USB 2.0 10km Singlemode Fiber Optic Extender System, 100-240V Power Adapter, EU Power Cord |
| 00-00418 | USB 2.0 Ranger 2344 - UK | 4-Port USB 2.0 10km Singlemode Fiber Optic Extender System, 100-240V Power Adapter, UK Power Cord |
| 00-00419 | USB 2.0 Ranger 2344 - AU | 4-Port USB 2.0 10km Singlemode Fiber Optic Extender System, 100-240V Power Adapter, AU Power Cord |
| 00-00420 | USB 2.0 Ranger 2344 - JP | 4-Port USB 2.0 10km Singlemode Fiber Optic Extender System, 100-240V Power Adapter, JP Power Cord |