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EXTREME USB®

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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.

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:

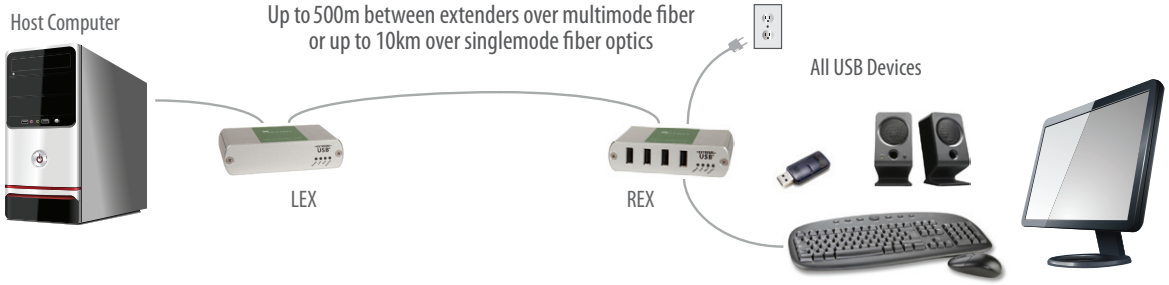
- Supports USB 2.0 throughputs of up to 480 Mbps
- Supplies up to 1 Amp per USB port; 600mA when all four ports are used concurrently
- Integrated hub provides ports for four USB devices, use hubs to add more
- Electrical isolation
- Reliable operation with USB 2.0 and 1.1 devices and hubs

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™ and Linux®

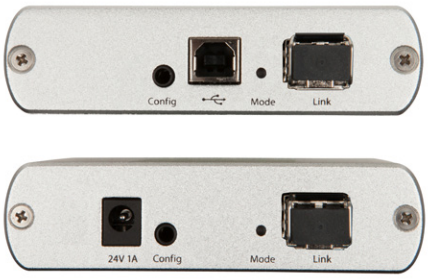
Applications

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

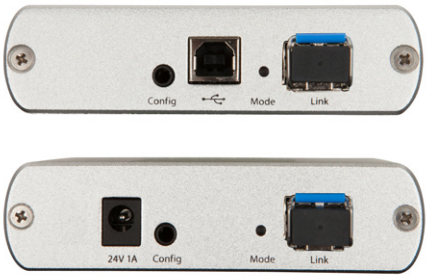


USB 2.0 Ranger® 2324/2344 Specifications

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 480 Mbps, USB 1.1: Up to 12 Mbps
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

EXTREME USB®

Ordering Information

Both USB 2.0 Ranger 2324 and Ranger 2344 systems include a LEX, REX, USB 2.0 cable, Quick Start Guide, one international power adapter with country specific power cord and 2-year warranty. For more information email sales@icron.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