



USB Ranger® 2224

Multimode Fiber Optic USB 2.0 Extender



Ranger 2224 extends USB 2.0 beyond the desktop up to 500m over multimode fiber optic cabling using ExtremeUSB® technology.

Ranger 2224 Features

- Powered by ExtremeUSB®. Long reach USB 2.0 enabled by Icron's LionsGate™ USB 2.0 Extension ASIC.
- Extends USB 2.0 high-speed and USB 1.1 (low-speed, full speed) devices up to 500m over fiber optics.
- Supports all USB device types: Control, Interrupt, Bulk and Isochronous at up to 480Mbps.
- Operates with USB 2.0 high-speed host controllers and USB 1.1 classic hosts.
- True plug and play, ready to operate right out of the box. No new driver installation required.
- Supports all major operating systems including Windows®, Mac OS®, and Linux®.
- Integrated hub provides four remote USB 2.0 ports. Number of devices can be increased using additional USB hubs.
- AC power adapter at remote unit provides standard 500mA to each USB port.
- Power adapter at local unit is not required for normal operation.
- Ideal for a wide variety of USB devices, from printers, scanners, hard drives, and audio devices, to touch screens, web cams, and game controllers.



Powered by **EXTREME-USB®**

www.icron.com

scanmagnetics.com

USB Ranger® 2224

Applications

- Industrial Control
- Digital Signage
- Home Network Integration
- Medical Device Connectivity
- KVM Extension
- Remote Desktop USB Connections
- Security: web camera, access control.
- USB Device Sharing: print, scan, storage.

Ordering Information

The Ranger 2224 system includes a Local Extender (LEX) module, a Remote Extender (REX) module, a 2 meter USB cable, and an International power adapter with country specific cord.

| Name | Part Number | Description |
|------------------|-------------|--|
| USB Ranger® 2224 | 00-00260 | 4-Port Multimode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: North American plug |
| USB Ranger® 2224 | 00-00261 | 4-Port Multimode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: European plug |
| USB Ranger® 2224 | 00-00262 | 4-Port Multimode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: UK plug |
| USB Ranger® 2224 | 00-00263 | 4-Port Multimode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: Australian plug |

Product Specifications

| | |
|---------------------------------|---|
| Range | 1640 ft (500m) over 50/125µm MMF 902 ft (275m) over 62.5/125µm MMF |
| LEX unit USB connector | 1 x USB Type B |
| LEX unit Link connector | 1 x SFP Duplex LC |
| REX unit Link connector | 1 x SFP Duplex LC |
| REX unit USB connector | 4 x USB Type A |
| Maximum USB devices supported | 14 USB devices or 3 USB hubs with 11 USB devices |
| Power adapter Maximum Rating | 5V DC @ 3A |
| Current available to USB at REX | 4 x 500mA |
| LEX and REX unit dimensions | 3.94" x 2.99" x 1.02" (100 mm x 76 mm x 26 mm) |
| Operating temperature range | 0°C to 50°C |
| Total system shipping weight | 2.0 lbs. (0.9 kilograms) |
| Regulatory testing | FCC (Class B), IC (Class B), CE (Class B) |
| ESD Rating | EMC EN-61000-4-2:2001 8kV Contact, 16kV Air |

Specifications subject to change without notification.

Contact sales@icron.com for more information or OEM options.

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USB Ranger[®] 2244

Singlemode Fiber Optic USB 2.0 Extender



Ranger 2244 extends USB 2.0 beyond the desktop up to 10km over singlemode fiber optic cabling using ExtremeUSB[®] technology.

Ranger 2244 Features

- Powered by ExtremeUSB[®]. Long reach USB 2.0 enabled by Icron's LionsGate[™] USB 2.0 Extension ASIC.
- Extends USB 2.0 high-speed and USB 1.1 (low-speed, full speed) devices up to 10km over fiber optics.
- Supports all USB device types: Control, Interrupt, Bulk and Isochronous at up to 480Mbps.
- Operates with USB 2.0 high-speed host controllers and USB 1.1 classic hosts.
- True plug and play, ready to operate right out of the box. No new driver installation required.
- Supports all major operating systems including Windows[®], Mac OS[®], and Linux[®]
- Integrated hub provides four remote USB 2.0 ports. Number of devices can be increased using additional USB hubs.
- Ideal for a wide variety of USB devices, from printers, scanners, hard drives, and audio devices, to touch screens, web cams, and game controllers.
- AC power adapter at remote unit provides standard 500mA to each USB port.
- Power adapter at local unit is not required for normal operation.



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USB Ranger® 2244

Applications

- Industrial Control
- Digital Signage
- Home Network Integration
- Medical Device Connectivity
- KVM Extension
- Remote Desktop USB Connections
- Security: web camera, access control.
- USB Device Sharing: print, scan, storage.

Ordering Information

The Ranger 2244 system includes a Local Extender (LEX) module, a Remote Extender (REX) module, a 2 meter USB cable, and an International power adapter with country specific cord.

| Name | Part Number | Description |
|------------------|-------------|---|
| USB Ranger® 2244 | 00-00264 | 4-Port Singlemode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: North American plug |
| USB Ranger® 2244 | 00-00265 | 4-Port Singlemode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: European plug |
| USB Ranger® 2244 | 00-00266 | 4-Port Singlemode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: UK plug |
| USB Ranger® 2244 | 00-00267 | 4-Port Singlemode Fiber Optic USB 2.0 Extender, International (100-240V) Power Adapter: Australian plug |

Product Specifications

| | |
|---------------------------------|--|
| Range | 6 miles (10km) over SMF |
| LEX unit USB connector | 1 x USB Type B |
| LEX unit Link connector | 1 x SFP Duplex LC |
| REX unit Link connector | 1 x SFP Duplex LC |
| REX unit USB connector | 4 x USB Type A |
| Maximum USB devices supported | 14 (including USB hubs) |
| Power adapter Maximum Rating | 5V DC @ 3A |
| Current available to USB at REX | 4 x 500mA |
| LEX and REX unit dimensions | 3.94" x 2.99" x 1.02" (100 mm x 76 mm x 26 mm) |
| Operating temperature range | 0°C to 50°C |
| Total system shipping weight | 2.0 lbs. (0.9 kilograms) |
| Regulatory testing | FCC (Class B), IC (Class B), CE (Class B) |
| ESD Rating | EMC EN-61000-4-2:2001 8kV Contact, 16kV Air |

Specifications subject to change without notification.

Contact sales@icron.com for more information or OEM options.

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