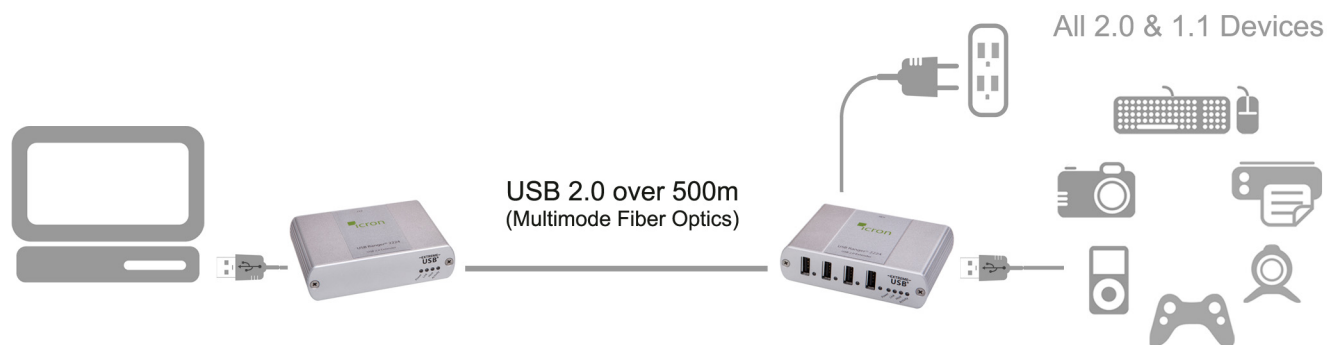# USB Ranger® 2224
Multimode Fiber Optic USB 2.0 Extender

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.

All 2.0 & 1.1 Devices

USB 2.0 over 500m
(Multimode Fiber Optics)

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.