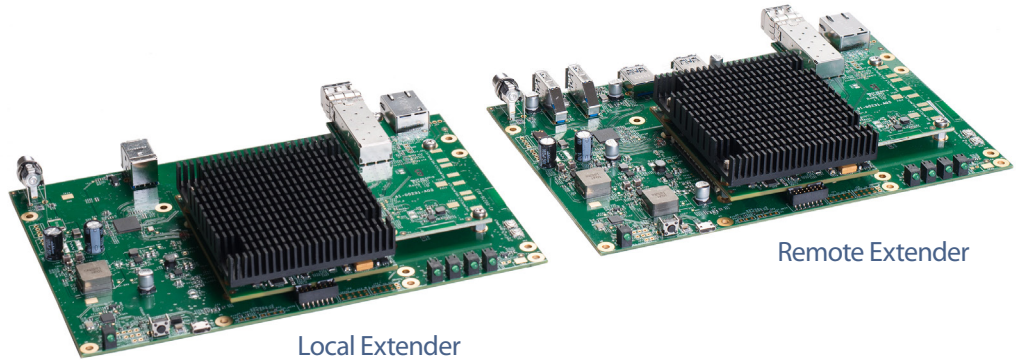# USB 3-2-1 Raven™ 3124 Turnkey
4-Port USB 3.1 200m Fiber Extender PCBA

The USB 3-2-1 Raven 3124 provides the ability to connect all USB 3.1 Gen 1 (5 Gbps) device types and is backwards compatible to USB 2.0 and 1.1 across a point-to-point connection up to 200m over Multimode Fiber. The Raven 3124 also includes an Ethernet pass-through for connecting to network enabled devices or to use existing infrastructure without losing LAN connectivity.
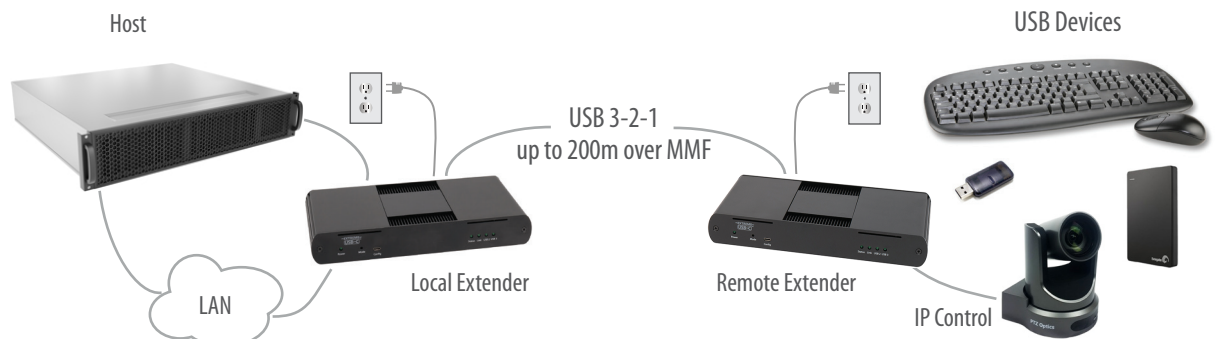
Remote Extender

Local Extender

Summary of Features

- USB 3.1 Gen 1 data rate up to 5 Gbps
- Supports all USB 3.1, 2.0, 1.1 devices simultaneously at full bandwidth
- Four available 3.1 Gen 1 ports
- 100 Mbps Ethernet channel; LAN pass-through
- Single cable, OM3 Multimode Fiber up to 200m
- Point-to-point connection

Includes the ExtremeUSB-C™ suite of features:

- Transparent USB extension supporting USB 3, 2 and 1
- True plug and play; no software drivers required
- Works with all major operating systems: Windows®, macOS™, Linux® and Chrome OS™

Applications

- Remote Storage
- Video Matrix Systems
- Security and Monitoring
- Conferencing Cameras

Host

USB Devices

USB 3-2-1
up to 200m over MMF

LAN

Local Extender

Remote Extender

IP Control

Above diagram shows an application with Local and Remote PCBA inside Icron enclosures.

USB 3-2-1 Raven 3124 Turnkey Specifications

LOCAL EXTENDER MECHANICAL DATA	REMOTE EXTENDER MECHANICAL DATA
133.0mm x 197.0mm x 28.4mm (5.2" x 7.8" x 1.1")	133.0mm x 197.0mm x 28.4mm (5.2" x 7.8" x 1.1")
1x USB 3.1 B Receptacle	4x USB 3.1 A Receptacles
1x RJ45 Ethernet 100 Mbps Port	1x RJ45 Ethernet 100 Mbps Port
1x Duplex LC	1x Duplex LC
24V 1A DC Locking Jack	24V 2.71A DC Locking Jack
370g (0.82 lbs.)	390g (0.86 lbs.)

RANGE	
Point-to-Point:	Up to 200m over OM3 Multimode Fiber

USB SUPPORT	
USB Speeds:	SuperSpeed 5 Gbps, High-Speed, Full-Speed, Low-Speed
USB Bandwidth:	Up to 5 Gbps
Device Compatibility:	All Device Types and Hubs
Host Compatibility:	OHCI, UHCI, EHCI, xHCI
Available Current at Remote:	1.2A (6W) per USB port
Max Number of USB Devices:	30

ENVIRONMENTAL	
Temperature:	0°C – 50°C (32°F – 122°F) Operating, -20°C – 70°C (-4°F – 158°F) Storage
Humidity:	20-80% Operating, 10-90% Storage Relative Humidity Non-Condensing

SUPPORT	
Warranty:	2 years

Ordering Information

The USB 3-2-1 Raven 3124 Turnkey is sold as either a Local Extender PCBA or Remote Extender PCBA and includes a 2-year warranty. USB 3.1 Gen 1 cable and power adapters are available for purchase as accessories. For more information, email sales@icron.com or call +1 604 638 3920.

PART #	NAME	DESCRIPTION
02-00158	USB 3-2-1 Raven 3124 Turnkey Local Extender	1-Port USB 3-2-1 200m MMF Local Extender PCBA
02-00159	USB 3-2-1 Raven 3124 Turnkey Remote Extender	4-Port USB 3-2-1 200m MMF Remote Extender PCBA
21-00114	24V 1A Power Adapter	Level VI, INTNL., 2.0mm (Locking Plug), IEC320-C7/C8 2 Pin
21-00135	24V 2.71A Power Adapter	Level VI, INTNL., 2.0mm (Locking Plug), IEC320-C7/C8 2 Pin
21-00136	USB 3.1 Gen 1 A/B Cable	1.8m Blue USB 3.1 Gen 1 Cable