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AN ANALOG DEVICES BRAND

USB & HD Video Extension Solutions.

innovate / distribute / support

Innovate.

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We bring together detailed knowledge of AV industry best practice and innovative products from global technology partners.

Our experience supporting AV and broadcast solutions across key market sectors is underpinned by 30 years of insights and customer understanding



Support.

Our team is dedicated to finding the best possible solution for every project.

Our dedicated team provide a successful formula for delivering innovation, agility and practicality for any complex AV project challenges.

From specification assistance, design support, or post sale technical support, our team is right behind you.

Distribute.

Connecting you to
world-leading brands.

We efficiently connect customers with leading, state of the art solutions through our sales, warehouse and distribution networks across Australia.

Our heavy investment in stock ensures we have what you need, when you need it.

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Contact Us.

For more information on the Icron Video Extension Solutions for your next project visit us at www.madisonav.com.au or call on 1800 00 77 80.

About ICRON.

USB & HD Video Extension Solutions.

Extend USB and Video Connections up to 10km with ExtremeUSB®

Overcome the 5m limitation of USB with Icron USB and video extension solutions. Icron's patented ExtremeUSB® technology extends the range of USB over multiple types of media such as CAT X, fibre and LAN.

Icron's ExtremeUSB® extension gives you plug and play simplicity, reliability and interoperability. Icron is a Maxim Integrated brand, as well as the global leader in USB 3, 2, 1 and HD video extension solutions. USB's five metre distance limitation may cause installation issues for applications where the host computer needs to be located away from the user, E.G

- secured locations to prevent tampering
- factory floors where environmental conditions may be unsafe
- medical imaging applications with exposure risks or privacy concerns

To overcome the 5m distance limitation, Icron developed a series of patented technologies called ExtremeUSB®.





Patented ExtremeUSB® Technology by Icron

Icron's patented ExtremeUSB® technology extends the range of USB over multiple types of media such as CAT X, fibre and LAN.

Products include the ExtremeUSB® suite of features:

- transparent USB extension
- true plug and play (no software drivers required)
- works with all major operating systems such as Windows®, macOS™, Linux®, and Chrome OS™



AN ANALOG DEVICES BRAND

NEW Icron Polaris™ 7044 Matrix Switcher.

USB 3-2-1 Matrix



Features

- 4x4 (4 Upstream, 4 Downstream) USB Matrix
- 24 possible configurations
- Supports USB 3 5Gbps and USB 2.0/1.1
- 15W of power per USB-C Device Port
- 6W of power per USB-A Device Port
- RS232 and Network API
- RS232, LAN Control with Web GUI interface
- SSH Secure Login
- 2 Polaris per single 19" rack space

Applications

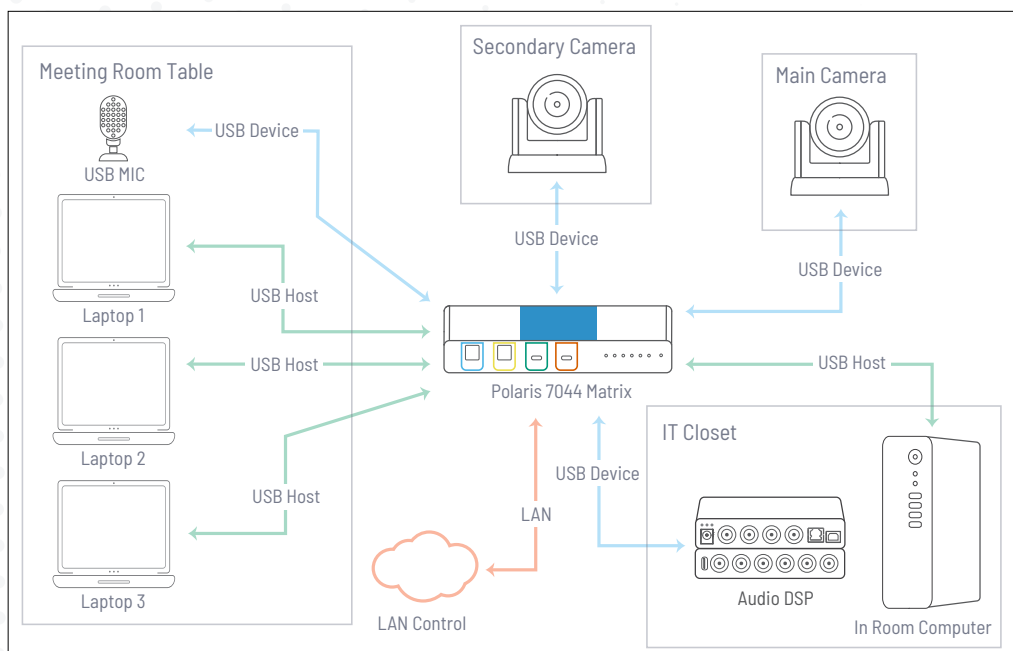
- Boardrooms
- Divisible Rooms
- IT as part of a KVM
- Desktop Switching

Product Code: IC 00-00469

Icron Polaris™ 7044 is a 4x4 USB 3-2-1 Matrix enabling any host to conveniently connect to, and switch between, one or more devices. Polaris supports USB 3 (5Gbps), 2.0, and 1.1 devices while powering up to 15W offering up to 24 possible configurations, controlled via RS232, web GUI, or API providing extremely flexible USB connectivity.

Specifications

| | |
|-------------------------|---|
| Product Code | IC 00-00469 |
| USB SUPPORT | |
| Host Upstream Ports | 2 x USB-B Ports, 2 x USB-C Ports |
| Device Downstream Ports | 2 x USB-A Ports, 2 x USB-C Ports |
| Traffic Types | Supports all USB Traffic Types |
| Device Types | Supports all USB Device Types |
| GENERAL | |
| Available Power | 15W per USB-C port, 6W per USB-A port |
| Hub Tiers Used | 1 |
| Network | 100BASE-T |
| Control | 1x RJ45, 1x 3-PIN RS232 |
| Power Supply | 100-240 AC Input, 24V, 2.71A DC Output |
| Enclosure Material | Black Anodized Aluminium |
| Dimensions | 212.5 x 125 x 30 |
| ENVIRONMENTAL | |
| Temperature | 0°C - 50°C (Operating Temperature) -20°C - 70°C (Storage Temperature) |
| Humidity | 20-80% Operating, 10-90% Storage Relative humidity non-condensing |
| COMPLIANCE | |
| Certification | FCC (Class-A), CE (Class A), RoHS2/3 (CE), ICES-003 Issue 7, IEC 62368-1 4th ED. |
| SUPPORT | |
| Warranty | 2 years |



USB Extenders.



Icron offers a wide variety of USB extenders suitable for many different USB 3, 2, and 1 applications. And they all incorporate Icron's ExtremeUSB® suite of features such as plug and play (no software drivers required) and compatibility with all major operating systems like Windows®, macOS™, Linux® and Chrome OS™.

Product Selection Guide.

| Product | Product Code | USB ¹ | Max. Distance | Transmission Media ² | Power Adapter Location | USB Port(s) |
|---------------------------------|--------------|------------------------|-------------------|----------------------------------|-------------------------|-------------|
| Icron USB 3-2-1 Raven™ 304C Pro | IC 00-00479 | USB 3.2, 3.1, 2.0, 1.1 | 200m | CAT 6a/7 or Local Area Network | LEX and REX | 4 |
| Icron USB 3-2-1 Raven™ 3204C | IC 00-00474 | USB 3.1, 2.0, 1.1 | 100m | CAT 6a/7 | LEX and REX | 4 |
| Icron USB 3-2-1 Raven™ 3104 Pro | IC 00-00454 | USB 3.2, 3.1, 2.0, 1.1 | 100m | CAT 6a/7 | LEX and REX | 4 |
| Icron USB 3-2-1 Raven™ 3104 | IC 00-00424 | USB 3.1, 2.0, 1.1 | 100m | CAT 6a/7 | LEX and REX | 4 |
| Icron USB 3-2-1 Raven™ 3124 | IC 00-00440 | USB 3.1, 2.0, 1.1 | 200m | Multimode Fibre | LEX and REX | 4 |
| Icron USB 3-2-1 Starling™ 3251C | IC 00-00456 | USB 3.2, 2.0, 1.1 | 10m | Included CAT cable | Bus Powered | 1 |
| USB 3.0 Spectra™ 3022 | IC 00-00330 | USB 3.0 ⁶ | 100m ³ | Multimode Fibre | REX | 2 |
| USB 3.0 Spectra™ 3001-15 | IC 00-00351 | USB 3.0 ⁶ | 15m | Active Copper Cable | Bus Powered | 1 |
| USB 2.0 Ranger® 2304GE-LAN | IC 00-00379 | USB 2.0 | 100m | CAT 5e/6/7 or Local Area Network | REX | 4 |
| USB 2.0 Ranger® 2304 | IC 00-00350 | USB 2.0 | 100m | CAT 5e/6/7 | REX | 4 |
| USB 2.0 Ranger® 2344 | IC 00-00419 | USB 2.0 | 10km | Singlemode Fibre | REX | 4 |
| USB 2.0 Ranger® 2324 | IC 00-00414 | USB 2.0 | 500m | Multimode Fibre | REX | 4 |
| USB 2.0 Ranger® 2312 | IC 00-00409 | USB 2.0 | 100m | CAT 5e/6/7 | LEX or REX ⁴ | 2 |
| USB 2.0 Ranger® 2311 | IC 00-00404 | USB 2.0 | 100m | CAT 5e/6/7 | LEX or REX ⁴ | 1 |
| USB 2.0 Ranger® 2301GE-LAN | IC 00-00399 | USB 2.0 | 100m | CAT 5e/6/7 or Local Area Network | REX | 1 |
| USB 2.0 Ranger® 2301 | IC 00-00394 | USB 2.0 | 100m | CAT 5e/6/7 | REX | 1 |

¹ Where USB 2.0 is listed, USB 1.1 is also supported. USB 3.0 extenders are not backward compatible.

² Specified Category cabling is a minimum requirement; higher grades are supported (eg. Cat 6, Cat 7).

³ 100m or more is achievable when using USB 3.0 bulk traffic cameras; 50m with storage type USB 3.0 devices.

⁴ Either the LEX or REX can use a power adapter. Only one is required.

⁵ Up to 40m is achievable for all USB devices; 85m is achievable for most low powered HID USB devices.

⁶ USB 3.0 only. Not backward compatible with USB 1.1 or 2.0.

USB 3-2-1 **Raven™** 3204C Pro Extender.

4-Port USB 3-2-1, 100m CAT 6a/7 USB-C Extender System



Features

- Supports all USB 3, 2, and 1.1 devices simultaneously up to 5Gbps (shared)
- Extends USB 3-2-1 up to 200m across a 10GbE LAN switch or 100m though a single CAT 6a/7 cable
- Power the LEX (Local Extender) using the USB-C connection to the host : If the host computer can deliver 15W to the LEX, the LEX power supply is not required.
- The REX (Remote Extender) includes 2 USB-C ports and 2 USB-A ports
- Delivers 3A at each USB-C port and 1.2A at each USB-A port
- Convenient Firmware Upgrade over Network capability saves time and reduces maintenance costs
- 1Gb Ethernet pass-through eliminates extra cable runs for simplified installations
- Compatible with all major UC conferencing applications

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™

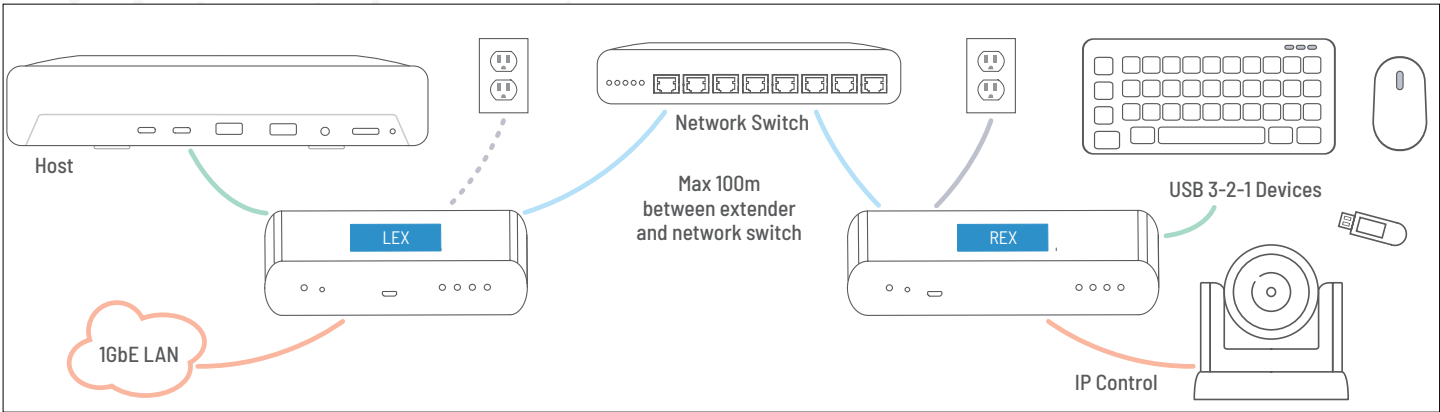
Applications

- Remote Storage
- Security and Monitoring
- Video Matrix Systems
- Conferencing Cameras
- Medical Device Connectivity

Product Code: IC 00-00479

The Icron Raven™ 3204C Pro is the world’s first USB 3-2-1 extender over a 10GbE LAN. Allows simultaneous extension of USB 3.0 (USB C data: up to speeds of 5Gbps), 2.0, and 1.1 protocols across a single link with auto negotiated communication between hosts and devices for maximum interoperability and ease of use.

| Specifications | |
|--------------------------------------|--|
| Product Code | IC 00-00479 |
| RANGE | |
| Point-to-Point | Up to 100m over CAT 6a/7 |
| USB SUPPORT | |
| USB Bandwidth | Up to 5Gbps |
| Device Compatibility | All device types and hubs |
| Host Compatibility | OHCI, UHCI, EHCI, xHCI |
| Available Current at REX | Supplies 3A (15W) per USB-C port and 1.2A (6W) per USB-A port |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| 165 x 100 x 35 | 197 x 100 x 35mm |
| 1x USB-C receptacle | 2 x USB 3.1A receptacles, 2 x USB-C receptacles |
| 1x RJ45 Ethernet 100/1000 Port | 1x RJ45 Ethernet 100/1000 Port |
| 1x RJ45 Ether Link Port | 1x RJ45 Ether Link Port |
| 24V 1A DC Locking Jack | 24V 2.71A DC Locking Jack |
| 572g | 697g |
| ENVIRONMENTAL | |
| Temperature | 0°C - 40°C (Operating Temperature) -20°C - 70°C (Storage Temperature) |
| Humidity | 20-80% Operating, 10-90% Storage Relative humidity non-condensing |
| COMPLIANCE | |
| Certifications | FCC (Class B), CE (Class B), RoHS2/3 (CE), ICES-003 Issue 7, EN 62368-1 |
| SUPPORT | |
| Warranty | 2 years |



USB 3-2-1 Raven™ 3204C Extender.

4-Port USB 3-2-1, 100m CAT 6a/7 USB-C Extender System



Product Code: IC 00-00474

Icron's next generation USB 3-2-1 extender, the Raven 3204C extends USB 3 (5Gbps), USB 2.0 and USB 1.1 devices up to 100m (330 ft) from a host computer across a point-to-point CAT 6a/7 connection. The Raven 3204C delivers the same exceptional performance as the Raven 3104, in a smaller, lighter design, with USB-C ports available for the host and extended devices.

Features

- Supports all USB 3, 2, and 1.1 devices simultaneously up to 5Gbps (shared):
 - If USB 3 Isochronous support is needed, Raven 3204C Pro is recommended
- Power the LEX (Local Extender) using the USB-C connection to the host*
- The REX (Remote Extender) includes 2 USB-C ports and 2 USB-A ports:
 - Delivers 3A at each USB-C port and 1.2A at each USB-A port
- 1Gb Ethernet pass-through eliminates extra cable runs for simplified installations
- Compatible with all major UC conferencing applications

Includes the ExtremeUSB-C™ suite of features:

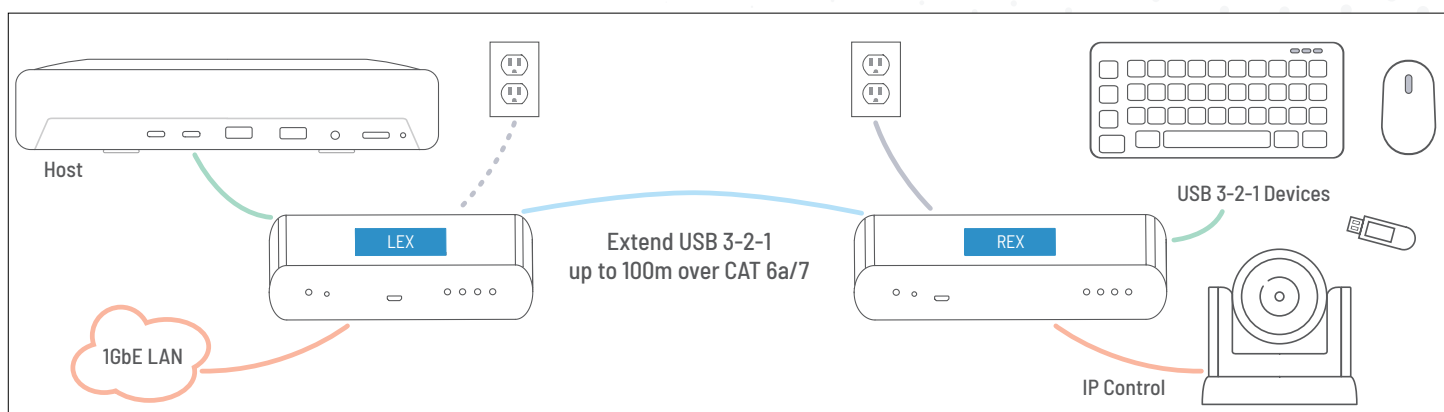
- Transparent USB extension supporting USB 3, 2 and 1
- True plug and play; no software drivers required
- Works with all major operating systems; Windows®, macOS™, Linux® and ChromeOS™

Applications

- Conference Rooms
- Security and Monitoring
- Video Matrix Systems
- Remote Storage

Specifications

| | |
|--|--|
| Product Code | IC 00-00474 |
| RANGE | |
| Point-to-Point | Up to 100m over CAT 6a/7 |
| USB SUPPORT | |
| USB Bandwidth | Up to 5Gbps |
| Device Compatibility | All device types and hubs |
| Host Compatibility | OHCI, UHCI, EHCI, xHCI |
| Available Current at REX | Supplies 3A (15W) per USB-C port and 1.2A (6W) per USB-A port |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | |
| REX (REMOTE EXTENDER) MECHANICAL DATA | |
| 165 x 100 x 35 | 197 x 100 x 35mm |
| 1x USB-C receptacle | 2 x USB 3.1A receptacles, 2 x USB-C receptacles |
| 1x RJ45 Ethernet 100/1000 Port | 1x RJ45 Ethernet 100/1000 Port |
| 1x RJ45 Ether Link Port | 1x RJ45 Ether Link Port |
| 24V 1A DC Locking Jack | 24V 2.71A DC Locking Jack |
| 572g | 697g |
| ENVIRONMENTAL | |
| Temperature | 0°C - 45°C (Operating Temperature) -20°C - 70°C (Storage Temperature) |
| Humidity | 20-80% Operating, 10-90% Storage Relative humidity non-condensing |
| COMPLIANCE | |
| Certifications | FCC (Class B), CE (Class B), RoHS2/3 (CE), ICES-003 Issue 7, IEC 62368-1 |
| SUPPORT | |
| Warranty | 2 years |



USB 3-2-1 Raven™ Series Compatibility.



USB 3-2-1 Raven™ series solves Huddle/conference room installation challenges such as:

- Standard USB cables are not long enough
- USB 3 extender reliability issues

Raven™ extends USB 3.1 web conferencing systems and other USB peripherals simultaneously up to 100 metres over CAT 6a/7 cable (3104) or up to 200 metres over OM3 fibre (3124).

The Raven™ 3104 Pro is recommended for enhanced compatibility and experience including higher resolution and support for ISO transport devices and modes.

| | USB 3-2-1 Raven™ 3124 | USB 3-2-1 Raven™ 3104 | USB 3-2-1 Raven™ 3104 Pro |
|-------------|--|--|--|
| Aver | – | – | VB342 Ultra HD 4K Camera CAM520 PTZ Camera |
| Logitech | – | – | Brio Ultra HD Webcam MeetUp ConferenceCam Rally PTZ Camera |
| Lumens | – | – | VC-B30U, USB 3.0 PTZ Camera |
| Angeki | The Saber | The Saber | The Saber |
| ClearOne | UNITE 150, professional grade USB PTZ Camera | UNITE 150, professional grade USB PTZ Camera | UNITE 150, professional grade USB PTZ Camera |
| HuddleCamHD | 20X-G2 USB 3.1 PTZ Camera | 20X-G2 USB 3.1 PTZ Camera | 20X-G2 USB 3.1 PTZ Camera |
| PTZOptics | USB 3.0 Advanced Conferencing Cameras: - PTZOptics 12X-USB - PTZOptics 20X-USB | USB 3.0 Advanced Conferencing Cameras: - PTZOptics 12X-USB - PTZOptics 20X-USB | USB 3.0 Advanced Conferencing Cameras: - PTZOptics 12X-USB - PTZOptics 20X-USB |
| Telycam | TLC-300-U3S, USB3.0 PTZ Video Conferencing Camera | TLC-300-U3S, USB3.0 PTZ Video Conferencing Camera | TLC-300-U3S, USB3.0 PTZ Video Conferencing Camera |
| Vaddio | Roboshot 12 | Roboshot 12 | Roboshot 12 |
| VDO360 | Saber USB3 HD Video Camera | Saber USB3 HD Video Camera | Saber USB3 HD Video Camera |

These companies have tested and validated their USB3 conference camera solutions to work seamlessly with Raven™ in conjunction with most popular web conferencing applications.



USB 3-2-1 Raven™ 3104 Pro Extender.

4-Port USB 3.2, 100m CAT 6a/7 Point-to-Point Extender System



Product Code: IC 00-00454

The Icron USB 3-2-1 Raven™ 3104 is backwards compatible to USB 2.0 and 1.1 and provides the ability to connect all USB 3.1 Gen 1 (5Gbps) device types to a host across a point-to-point connection up to 100m over CAT 6a/7. The Raven™ 3104™ also includes an Ethernet pass-through for connecting to network enabled devices or to use existing infrastructure without losing LAN connectivity.

Features

- USB 3.2 Gen 1 data rate up to 5Gbps
- Supports all USB 3.1, 2.0, 1.1 devices simultaneously at full bandwidth
- Four available 3.1 Gen 1 ports
- 100/1000 Ethernet channel; LAN pass-through
- Single cable, CAT 6a/7 up to 100m
- Point-to-point connection
- Isochronous support

Includes the ExtremeUSB-C™ suite of features:

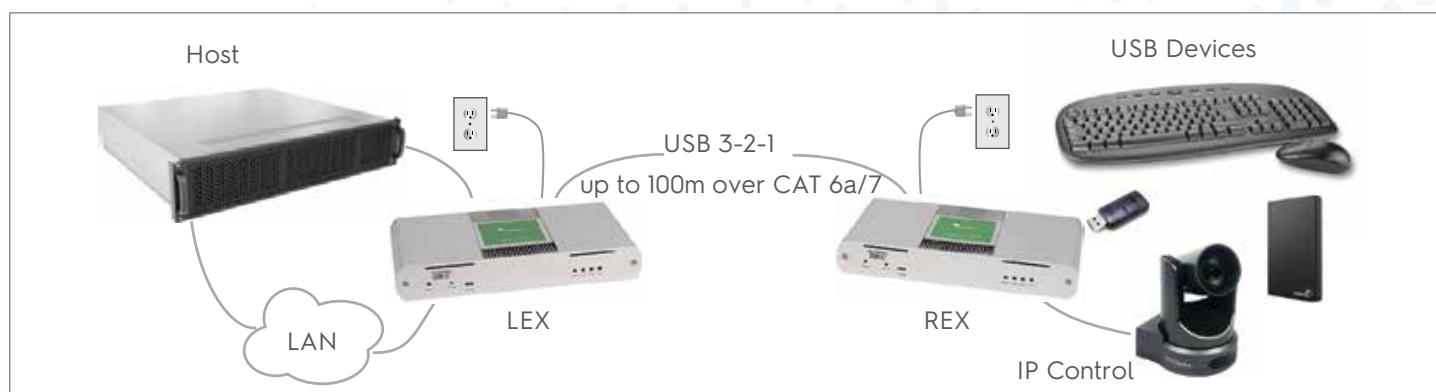
- Transparent USB extension supporting USB 3, 2 and 1
- True plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

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

Specifications

| | |
|---|--|
| Product Code | IC 00-00454 |
| RANGE | |
| Point-to-Point | Up to 100m over CAT 6a/7 |
| USB SUPPORT | |
| USB Speeds | SuperSpeed 5Gbps, High-Speed, Full-Speed, Low-Speed |
| USB Bandwidth | Up to 5Gbps |
| Device Compatibility | All device types and classes (Control, Interrupt, Isochronous and Bulk) |
| Host Compatibility | OHCI, UHCI, EHCI, xHCI |
| Available Current at REX | 1.2A (6W) per USB port |
| Max No of USB devices | 30 |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| 137.3 x 232.1 x 33.0mm | 137.3 x 232.1 x 33.0mm |
| 1x USB 3 Type B receptacle | 4x USB 3 Type B receptacle |
| 1x RJ45 Ethernet 100/1000 Port | 1x RJ45 Ethernet 100/1000 Port |
| 1x RJ45 Ether Link Port | 1x RJ45 Ether Link Port |
| 24V 1A DC Locking Jack | 24V 2.71A DC Locking Jack |
| 920g | 990g |
| ENVIRONMENTAL | |
| Temperature | 0°C - 50°C (Operating Temperature) -20°C - 70°C (Storage Temperature) |
| Humidity | 20-80% Operating, 10-90% Storage Relative humidity non-condensing |
| SUPPORT | |
| Warranty | 2 years |



USB 3-2-1 **Raven™** 3104 Extender.

4-Port USB 3.1, 100m CAT 6a/7 Point-to-Point Extender System

Product Code: IC 00-00424

The Icron USB 3-2-1 Raven™ 3104 is backwards compatible to USB 2.0 and 1.1 and provides the ability to connect all USB 3.1 Gen 1 (5 Gbps) device types to a host across a point-to-point connection up to 100m over CAT 6a/7. The Raven 3104™ also includes an Ethernet pass-through for connecting to network enabled devices or to use existing infrastructure without losing LAN connectivity.

Features

- USB 3.1 Gen 1 data rate up to 5Gbps
- Supports all USB 3.1, 2.0, 1.1 devices simultaneously at full bandwidth
- Four available 3.1 Gen 1 ports
- 100/1000 Ethernet channel; LAN pass-through
- Single cable, CAT 6a/7 up to 100m
- Point-to-point connection

Includes the ExtremeUSB-C™ 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

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



| Specifications | |
|---|--|
| Product Code | IC 00-00424 |
| RANGE | |
| Point-to-Point | Up to 100m over CAT 6a/7 |
| USB SUPPORT | |
| USB Speeds | SuperSpeed 5Gbps, High-Speed, Full-Speed, Low-Speed |
| USB Bandwidth | Up to 5Gbps |
| Device Compatibility | All device types and hubs |
| Host Compatibility | OHCI, UHCI, EHCI, xHCI |
| Available Current at REX | 1.2A per USB port, 5A total shared |
| Max No of USB devices | 30 |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| 137.3 x 232.1 x 33.0mm | 137.3 x 232.1 x 33.0mm |
| 1x USB 3.1B receptacle | 4 x USB 3.1A receptacles |
| 1x RJ45 Ethernet 100 Mbps Port | 1x RJ45 Ethernet 100 Mbps Port |
| 1x RJ45 Ether Link Port | 1x RJ45 Ether Link Port |
| 24V 1A DC Locking Jack | 24V 2.71A DC Locking Jack |
| 920g | 990g |
| ENVIRONMENTAL | |
| Temperature | 0°C - 45°C (Operating Temperature) -20°C - 70°C (Storage Temperature) |
| Humidity | 20-80% Operating, 10-90% Storage Relative humidity non-condensing |
| SUPPORT | |
| Warranty | 2 years |



USB 3-2-1 Raven™ 3124 Extender.

4-Port USB 3.1, 200m Multimode Fibre Point-to-Point Extender System



Product Code: IC 00-00440

The Icron USB 3-2-1 Raven™ 3124 is backwards compatible to USB 2.0 and 1.1 and provides the ability to connect all USB 3.1 Gen 1 (5Gbps) device types to a host across a point-to-point connection up to 200m over Multimode Fibre.

The ICRON USB 3-2-1 Raven™ also includes an Ethernet pass-through for connecting to network enabled devices or to use existing infrastructure without losing LAN connectivity.

Features

- USB 3.1 Gen 1 data rate up to 5Gbps
- 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 Fibre up to 200m
- Point-to-point connection

Includes the ExtremeUSB-C™ suite of features:

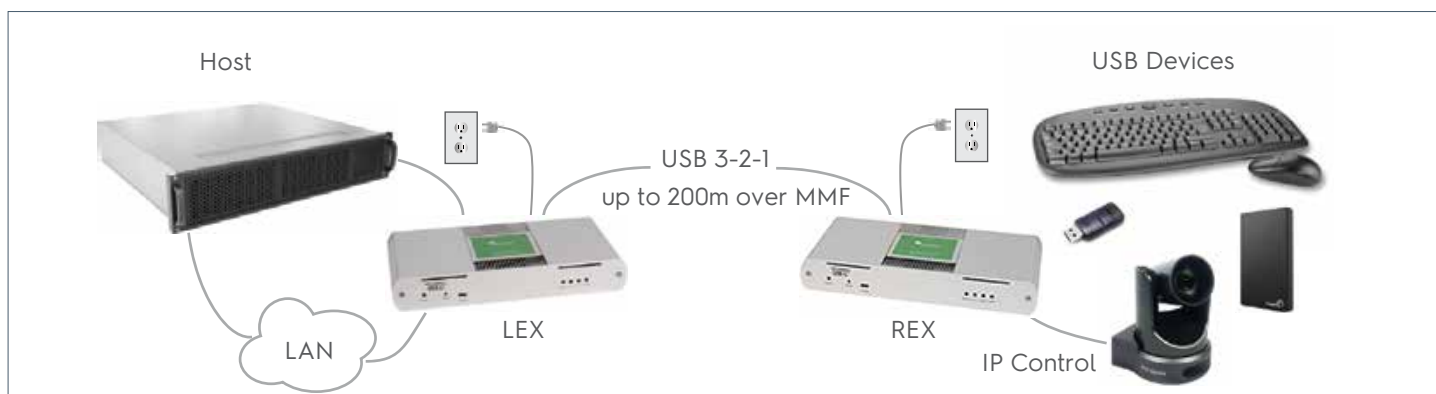
- Transparent USB extension
- True plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

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

Specifications

| | |
|---|--|
| Product Code | IC 00-00440 |
| RANGE | |
| Point-to-Point | Up to 200m over OM3 Multimode Fibre |
| USB SUPPORT | |
| USB Speeds | SuperSpeed 5Gbps, High-Speed, Full-Speed, Low-Speed |
| USB Bandwidth | Up to 5Gbps |
| Device Compatibility | All device types and hubs |
| Host Compatibility | OHCI, UHCI, EHCI, xHCI |
| Available Current at REX | 1.2A (6W) per USB port |
| Max No of USB devices | 30 |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| 137.3 x 232.1 x 33.0mm | 137.3 x 232.1 x 33.0mm |
| 1x USB 3.1B receptacle | 4 x USB 3.1A 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 |
| 920g | 990g |
| ENVIRONMENTAL | |
| Temperature | 0°C - 50°C (Operating Temperature) -20°C - 70°C (Storage Temperature) |
| Humidity | 20-80% Operating, 10-90% Storage Relative humidity non-condensing |
| SUPPORT | |
| Warranty | 2 years |



USB 3-2-1 Starling™ 3251C Series.

1-Port USB 3.2 Gen 1 Type-C 10m Extender System

Product Code: IC 00-00456

The Icron USB 3-2-1 Starling 3251C Series provides short-distance extension with all USB 3.2 Gen 1/2 (5Gbps) device types across a point-to-point connection up to 10 metres and is backwards compatible to USB 2.0 and 1.1. Bus-powered, the 3251C is available with standard or low smoke cable.

The Icron USB 3-2-1 Starling™ 3251C is the world’s first USB 3.2 Gen 1 extender utilising a custom cable with ExtremeUSB-C™ technology, extending USB 3, 2 and 1 devices simultaneously up to 10 metres. The Starling 3251C is used to extend high-resolution USB 3 conferencing cameras, Video Capture devices, USB 3 and USB 2 flash drives, hard drives, keyboards, mice, interactive white boards, touchscreens, audio devices, and many other USB 3, 2 and 1 devices.

Features

- USB 3.2 Gen 1 data rate up to 5Gbps
- Supports all USB 3.2, 2.0, 1.1 devices simultaneously at full bandwidth
- USB-C port connectivity (USB data only)
- Bus-powered with optional DC input
- Single 10-metre standard or low smoke cable
- FCC and CE (Class A) compliant

Includes the ExtremeUSB® suite of features:

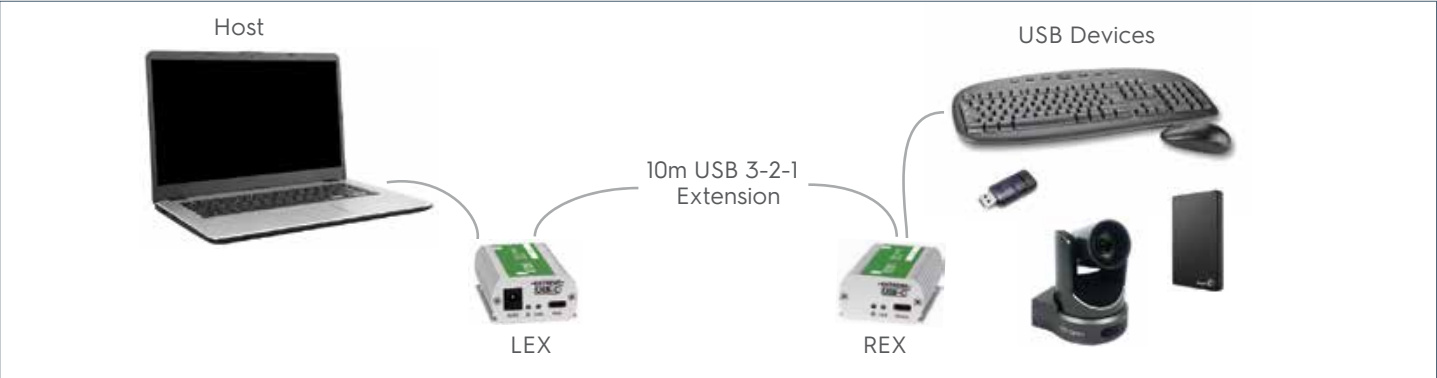
- Transparent USB extension supporting USB 3, 2 and 1
- True plug and play; no software drivers required
- Works with all major operating systems: Windows®, macOS™, Linux® and Chrome OS™

Applications

- Remote Storage
- Security and Monitoring
- Conference Rooms
- Test and Measurement



| Specifications | |
|---|---|
| Product Code | IC 00-00456 |
| RANGE | |
| Point to Point | 10m using included cable |
| SPEEDS | |
| USB 3.2 | Up to 5Gbps |
| USB 2.0 | Up to 480Mbps |
| USB 1.1 | Up to 12Mbps |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB 3.2 Gen 1 Type-C Receptacle | USB Connector: 1x USB 3.1 Gen 1 Type-C Port |
| Link Connector: 1x RJ45 Link Port | Link Connector: 1x RJ45 Link Port |
| Maximum Wattage: 15W (5V 3A) USB or Self-Powered | Available Current: up to 900mA |
| Dimensions: 86.0 x 45.0 x 24.0mm | Dimensions: 86.0 x 45.0 x 24.0mm |
| Enclosure material: Silver anodized aluminium | Enclosure material: Silver anodized aluminium |
| Weight: 80g | Weight: 80g |
| Mounting: 4 surface mounting holes or optional mounting kit available | Mounting: 4 surface mounting holes or optional mounting kit available |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (Class A), CE (Class A) |
| Environmental | RoHS2 (CE), REACH, Conflict Minerals |
| SUPPORT | |
| Warranty | 2 years |



USB 3.0 Spectra® 3022 Extender.

2-Port USB 3.0 100m Multimode Fibre Extender System*



Features

- USB 3.0 extension up to 100m
- Delivers speed, isolation and security over multimode fibre
- Supports USB 3.0 throughputs of up to 5Gbps
- Integrated 2-port hub suitable for industrial environments
- Rugged locking USB and power connectors
- Enclosures with convenient pre-drilled holes for optional bracket mounting
- Works with AIA USB3 Vision™ compliant devices

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

- Machine Vision camera extension
- Post-Production editing
- Remote storage
- Security camera extension
- Conferencing camera extension

* Not backward compatible with USB 1.1 or 2.0.

** Up to 50m with USB 3.0 storage type devices, up to 10mm or more is achievable when using USB 3.0 bulk traffic cameras. For Microsoft Kinect applications, please use the Spectra™ 3001-15 active extension cable.

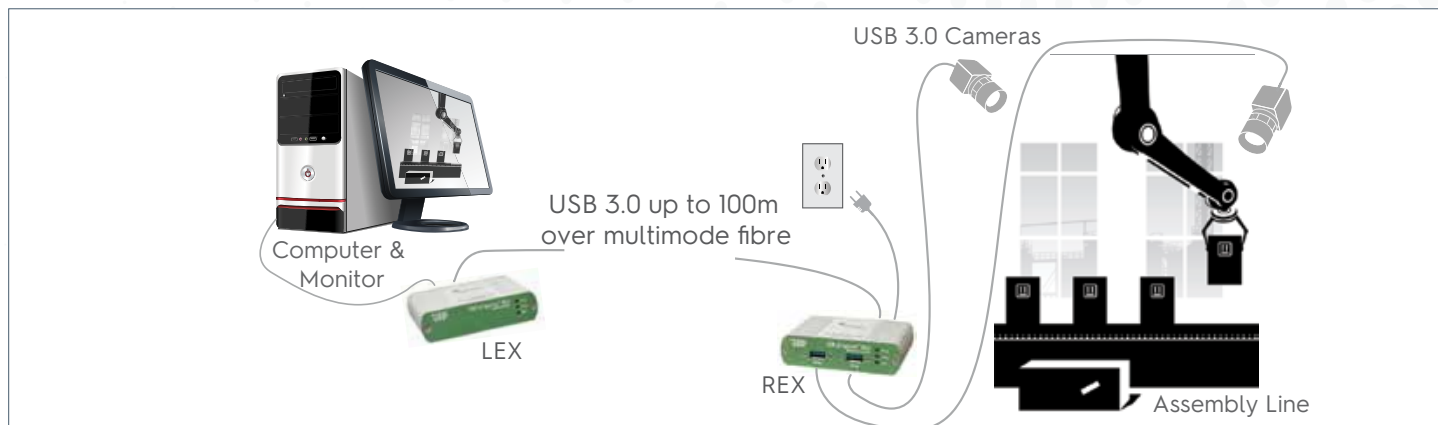
Product Code: IC 00-00330

The USB 3.0 Spectra™ 3022 extends SuperSpeed USB 3.0 up to 100m.**

Take advantage of USB 3.0's blazing 5Gbps speeds up to 100m of distance over multimode fibre. Machine Vision cameras, security cameras, conferencing cameras and storage drives can be extended while providing isolation and security.

Specifications

| | | |
|---|--|--|
| Product Code | IC 00-00330 | |
| RANGE | | |
| OM2 Multimode Fibre | Up to 50m | |
| OM3 Multimode Fibre | Up to 100m | |
| SPEEDS | | |
| USB 3.0 | Up to 5Gbps (not backward compatible with USB 2.0/1.1) | |
| POWER | | |
| Power supply | 100-240V AC Brick, Locking | |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB 3.0 Type B Locking Receptacle per AIA USB3 Vision specification | | USB Connector: 2x USB 3.0 Type A Locking Receptacles per AIA USB3 Vision specification |
| Link Connector: 1x Duplex LC Connector | | Link Connector: 1x Duplex LC Connector |
| Dimensions: 100.0 x 76.0 x 26.0mm | | Dimensions: 100.0 x 76.0 x 26.0mm |
| Enclosure material: Anodized aluminium | | Enclosure material: Anodized aluminium |
| Available Current: 900mA to each USB Port | | Available Current: 900mA to each USB Port |
| ENVIRONMENTAL | | |
| Operating Temperature | 0°C - 50°C | |
| Storage Temperature | -20°C - 70°C | |
| Operating Humidity | 20-80% relative humidity, non-condensing | |
| Storage Humidity | 10-90% relative humidity, non-condensing | |
| COMPLIANCE | | |
| EMC | FCC (Class B), CE (Class B) | |
| Environmental | RoHS2 (CE) | |
| Machine Vision | Works with AIA USB3 Vision™ compliant devices | |
| SUPPORT | | |
| Warranty | 2 years | |



USB 3.0 Spectra® 3001-15 Extender.

1-Port USB 3.0 15m Active Extension Cable*

Product Code: IC 00-00351

Take advantage of Icron's rugged SuperSpeed active copper cable supporting full USB 3.0 5Gbps throughput over 15 metres. The cable provides 900mA of power to peripheral devices enabling placement flexibility of USB 3.0 cameras and storage devices.

The USB 3.0 Spectra™ 3001-15 is designed to support Industrial and Commercial applications including Machine Vision, Medical, Military, Robotics, Security, Broadcast and Post-Production and Boardroom Automation.

Features

- 15 metre USB 3.0 extension
- Supports full USB 3.0 throughputs up to 5Gbps
- Bus powered from host computer, no external power supply required
- Provides 5V, 900mA power at USB 3.0 device port
- Second USB power connector for use if additional power is required
- AIA USB3 Vision™ Locking connector
- Device port designed for convenient cable tie mounting
- Rugged grade cabling
- Status coloured LED at device port with power, enumeration and over-current indication
- Works with all AIA USB3 Vision™ compliant devices

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

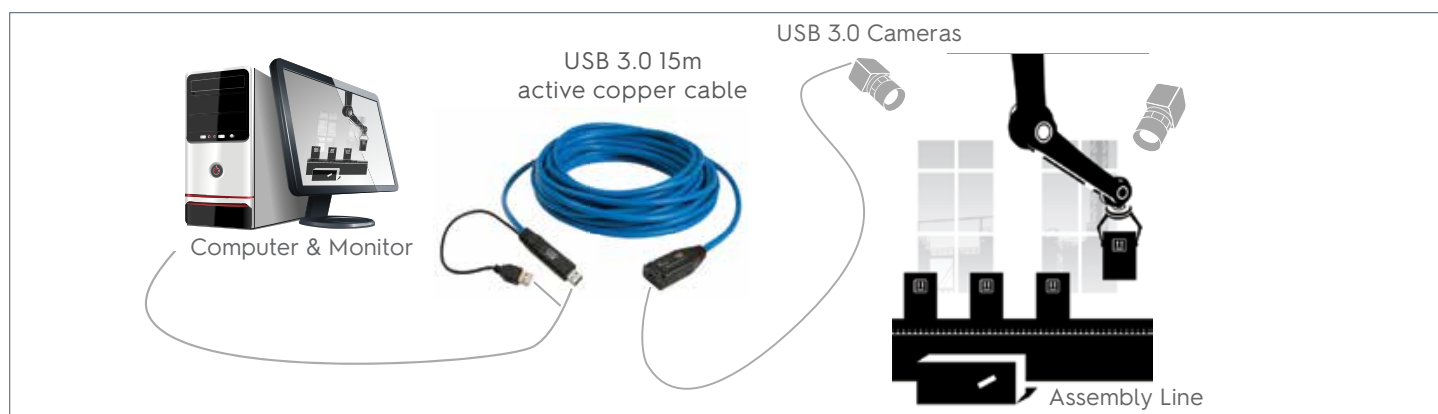
- Machine Vision
- Medical, Military, Robotics
- Security and monitoring
- Broadcast & Post-Production
- Boardroom automation

* USB 3.0 only. Not backward compatible with USB 1.1 or 2.0.



Specifications

| | |
|-------------------------------|--|
| Product Code | IC 00-00351 |
| RANGE | |
| Point-to-Point | 15m |
| SPEEDS | |
| USB Speeds | USB 3.0 up to 5Gbps (not backward compatible with USB 2.0/1.1) |
| ACTIVE COPPER CABLE | |
| USB Connector on Device Side | 1x USB 3.0 Type A Locking Receptacle |
| USB Connectors on Host Side | 1 x USB 3.0 Type A Host Connector 1 x USB 3.0 Type A Power Connector (required for devices drawing on more than 2.5W) |
| Cable Diameter | 6.9mm |
| Jacket Material | PVC |
| Bend Radius | 28mm |
| Mounting Slots on Device Side | Slots for Cable Tie |
| POWER | |
| Power Source | Bus Power |
| Available Power to Device | 5V, 900mA |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 45°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% Relative humidity non-condensing |
| Storage Humidity | 10-90% Relative humidity non-condensing |
| COMPLIANCE | |
| EMC | FCC (Class B), CE (Class B) |
| Environmental | RoHS2 (CE) |
| Flammability | VW-1 (UL 1581) |
| Machine Vision | Works with all AIA USB3 Vision™ compliant devices |
| SUPPORT | |
| Warranty | 2 years |



USB 2.0 **Ranger**® 2304GE-LAN Extender.

4-Port USB 2.0 Gigabit Ethernet LAN Extender System



Features

- Extends USB through 1000Mbps LANs
- USB 2.0 throughput up to 480Mbps*
- Pre-paired network configuration for simple installation**
- Supplies up to 600mA to each USB port concurrently

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

- Remote storage
- Industrial control
- Security and monitoring
- Keyboard and mouse

* Maximum throughput will vary based on network traffic, distances and number of switches between extenders.

**Pre-paired network configuration only applies to units purchased together as a complete local and remote extender system.

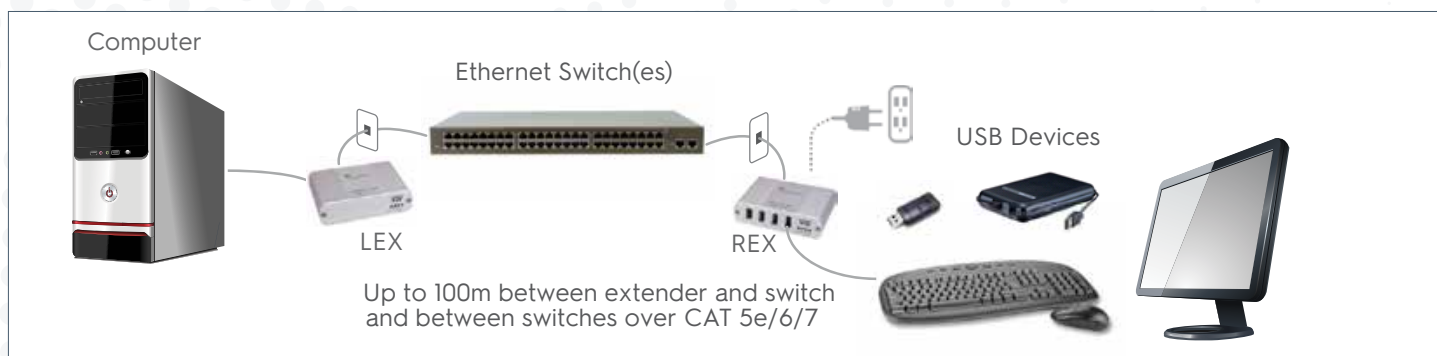
Product Code: IC 00-00379

The USB 2.0 Ranger® 2304GE-LAN provides the ability to connect all USB 2.0 device types to hosts across a Gigabit Ethernet Local Area Network using existing cabling.

The RG2304GE-LAN extends USB 2.0 peripherals such as Flash drives, keyboards, mice, webcams and interactive white boards across a Local Area Network (LAN) and supports modern USB 3.0 controllers up to 480 Mbps. The RG2304GE-LAN includes support for isochronous devices such as webcams.

Specifications

| | |
|--|--|
| Product Code | IC 00-00379 |
| RANGE | |
| Direct Connect | Up to 100m over solid core CAT 5e/6/7 |
| Network Connect | Up to 100m between switches over solid core CAT 5e/6/7 |
| USB DEVICE SUPPORT | |
| Network and Direct Connect | Up to 480Mbps |
| Traffic Types | All USB 2.0 Traffic Types |
| Device Types | All USB 2.0 Device Types |
| Maximum Number | Up to 30 devices |
| POWER | |
| Power supply | 100-240V AC Input, 5V 3A DC Output |
| LEX (LOCAL EXTENDER) | REX (REMOTE EXTENDER) |
| MECHANICAL DATA | MECHANICAL DATA |
| USB Connector: 1x USB Type B Receptacle | USB Connector: 4x USB Type A Receptacles |
| Link Connector: 1x RJ45 | Link Connector: 1x RJ45 |
| Dimensions: 100.0 x 76.0 x 26.0mm | Dimensions: 100.0 x 76.0 x 26.0mm |
| Enclosure material: Silver anodized aluminium | Enclosure material: Silver anodized aluminium |
| Available Current: Up to 600mA to each USB port concurrently | Available Current: Up to 600mA to each USB port concurrently |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS B), CE (CLASS B) |
| Environmental | RoHS2 (CE) |
| SUPPORT | |
| Warranty | 2 years |



USB 2.0 **Ranger®** 2304 Extender.

1-Port USB 2.0, 100m CAT 5e/6/7 Extender System



Product Code: IC 00-00350

The USB 2.0 Ranger® 2304 is the latest in a long line of reliable point-to-point USB 2.0 extender systems from Icron Technologies. It features full device and host support, including newer USB 3.0 compatible devices up to 480 Mbps and controllers, and fast USB 2.0 throughputs.

The Ranger® 2304 extends all USB 2.0 peripherals such as flash drives, keyboards, mice, webcams and interactive white boards across a dedicated CAT 5e/6/7 connection.

Features

- USB 2.0 throughput up to 480Mbps
- Integrated hub provides ports for four USB devices, use hubs to add more
- Supplies up to 600mA to each USB port concurrently
- Operates with all USB controllers

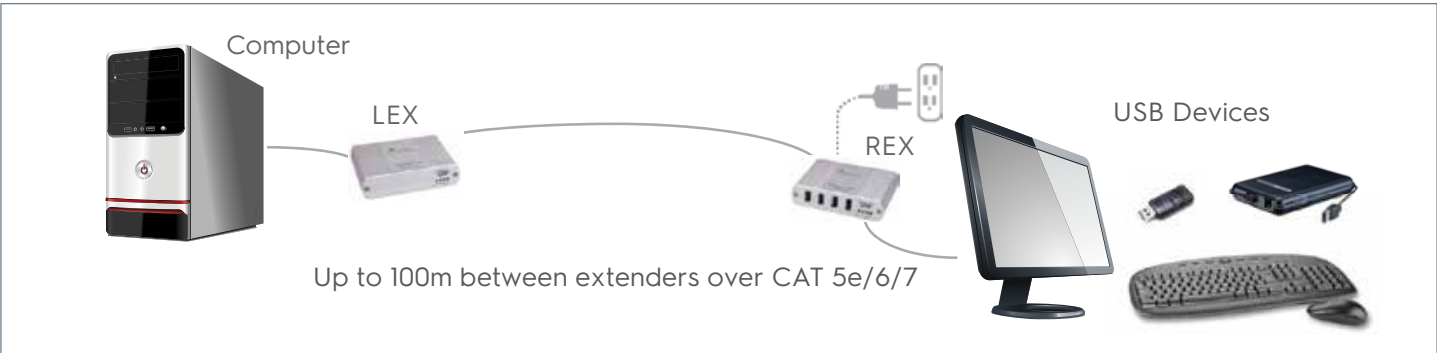
Includes the ExtremeUSB-C™ suite of features:

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

Applications

- Remote storage
- Professional Audio-Visual
- Security and monitoring
- Keyboard and mouse

| Specifications | |
|---|--|
| Product Code | IC 00-00350 |
| RANGE | |
| Direct Connect | Up to 100m over solid coreCAT 5e/6/7 |
| USB DEVICE SUPPORT | |
| 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 |
| POWER | |
| Power supply | 100-240V AC Input, 5V 3A DC Output |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB Type B Receptacle | USB Connector: 1x USB Type A Receptacle |
| Link Connector: 1x RJ45 | Link Connector: 1x RJ45 |
| Dimensions: 100.0 x 76.0 x 26.0mm | Dimensions: 100.0 x 76.0 x 26.0mm |
| Enclosure material: Silver anodized aluminium | Enclosure material: Silver anodized aluminium |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS B), CE (CLASS B) |
| Environmental | RoHS2 (CE) |
| SUPPORT | |
| Warranty | 2 years |



USB 2.0 **Ranger®** 2324 & 2344 Extenders.

4-Port USB 2.0 Fibre Extender System

Ranger® 2324 Product Code: IC 00-00414

Ranger® 2344 Product Code: IC 00-00419

The USB 2.0 Ranger® 2324 & 2344 extends high-speed USB 2.0 connections up to 500m.

The USB 2.0 Ranger® 2324 does this using multimode fibre while the USB 2.0 Ranger® 2344 extends up to 10km over single mode fibre optics.

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 fibre optic connection.

Features

- 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:

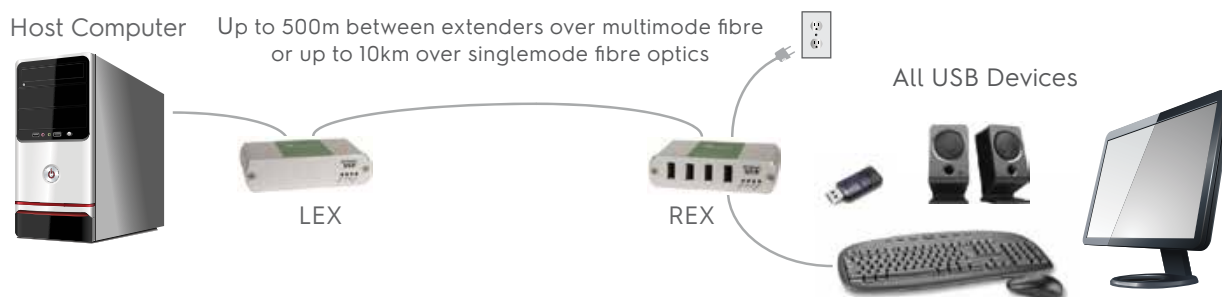
- Transparent USB extension
- True plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

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



| Specifications | |
|--|--|
| Product Code: Ranger® 2324 | IC 00-00414 |
| Product Code: Ranger® 2344 | IC 00-00419 |
| RANGE | |
| Ranger® 2324 | Up to 500m over Multimode Fibre (OM2+) |
| Ranger® 2344 | Up to 10km over Singlemode Fibre |
| USB DEVICE SUPPORT | |
| 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 |
| POWER | |
| Power supply | 100-240V AC Input, 5V 3A DC Output |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB Type B Receptacle | USB Connector: 4x USB Type A Receptacles |
| Link Connector: 1x SFP Duplex LC | Link Connector: 1x SFP Duplex LC |
| Dimensions: 100.0 x 76.0 x 26.0mm | Dimensions: 100.0 x 76.0 x 26.0mm |
| Enclosure material: Silver anodized aluminium | Enclosure material: Silver anodized aluminium |
| Available Current: Up to 600mA to each USB port concurrently | Available Current: Up to 600mA to each USB port concurrently |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS B), CE (CLASS B) |
| Environmental | RoHS2 (CE) |
| SUPPORT: | |
| Warranty | 2 years |



USB 2.0 **Ranger**® 2312 Extender.

1-Port USB 2.0, 100m CAT 5e/6a/7 Extender System with Flexible Power

Product Code: IC 00-00409

The USB 2.0 Ranger® 2312 extends high-speed USB 2.0 connections up to 100m using CAT 5e/6/7 with the option to power at either the LEX (Local Extender) or REX (Remote Extender).

The Ranger® 2312 is ideal for extending USB peripherals including: keyboards, mice, interactive white boards, flash drives, hard drives, audio devices, web cameras and any other USB device.



Features

- Flexible power - connect the power adapter to either the LEX or REX
- Supplies up to 1.5 Amps total when both ports are in use
- Mass Storage Acceleration for USB 2.0 device bulk transfer speeds
- Supports throughputs of up to 480 Mbps
- FCC/CE Class B

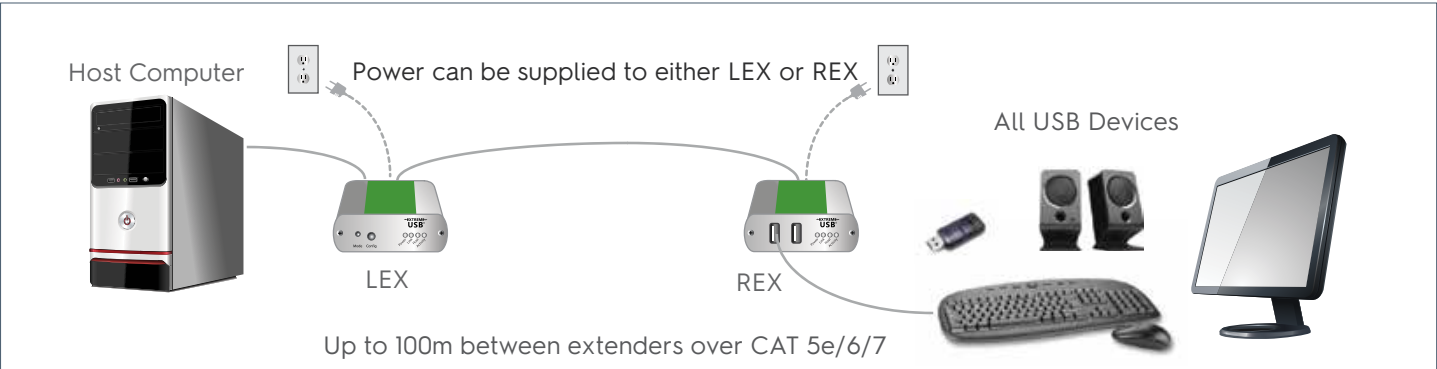
Includes the ExtremeUSB-C™ suite of features:

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

Applications

- Interactive whiteboard
- Sensor/data acquisition
- Keyboard and mouse extension
- Industrial control

| Specifications | |
|---|---|
| Product Code | IC 00-00409 |
| RANGE | |
| Direct Connect | Up to 100m over solid coreCAT 5e/6a/7 |
| SPEEDS | |
| USB 2.0 | Up to 480Mbps |
| USB 1.1 | Up to 12Mbps |
| POWER | |
| Power supply | 100-240V AC Input, 24V 1A DC Output |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB Type B Receptacle | USB Connector: 1x USB Type A Receptacle |
| Link Connector: 1x RJ45 | Link Connector: 1x RJ45 |
| Dimensions: 87.0 x 75.0 x 26.0mm | Dimensions: 87.0 x 75.0 x 26.0mm |
| Slots for cable ties or optional mounting kit available | Slots for cable ties or optional mounting kit available |
| Enclosure material: Silver anodized aluminium | Enclosure material: Silver anodized aluminium |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS B), CE (CLASS B) |
| Environmental | RoHS2 (CE) |
| SUPPORT | |
| Warranty | 2 years |



USB 2.0 Ranger® 2311 Extender.

1-Port USB 2.0, 100m CAT 6a/7 Extender System with Flexible Power

Product Code: IC 00-00404

The USB 2.0 Ranger® 2311 extends high-speed USB 2.0 connections up to 100m using CAT 5e/6/7, option to power either LEX (Local Extender) or REX (Remote Extender).

The Ranger 2311 is ideal for extending USB peripherals including: keyboards, mice, interactive white boards, flash drives, hard drives, audio devices, web cameras and any other USB device.



Features

- Flexible power - connect the power adapter to either the LEX or REX
- Supplies up to 1Amp to USB port
- Mass Storage Acceleration for USB 2.0 device bulk transfers
- Supports throughputs of up to 480 Mbps

Includes the ExtremeUSB-C™ suite of features:

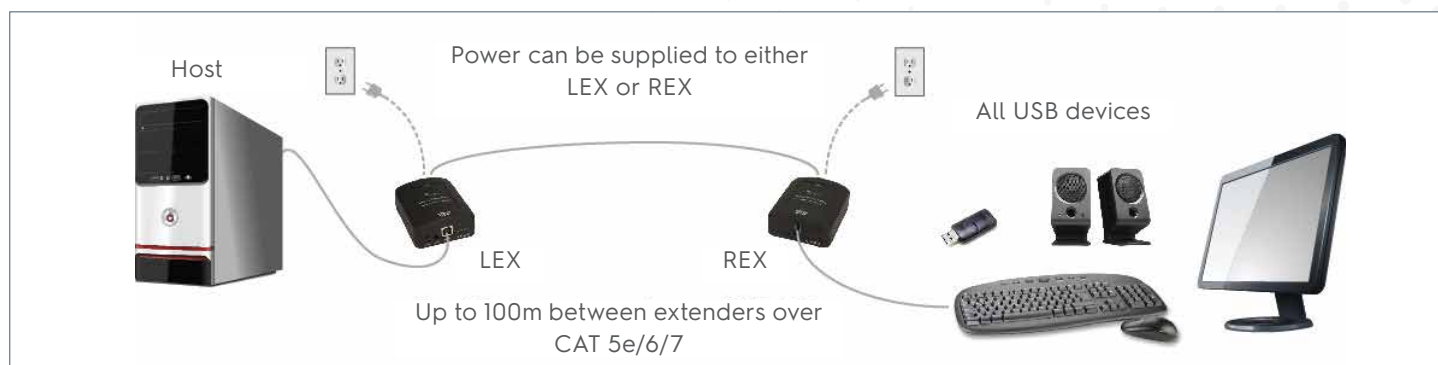
- Transparent USB extension
- Plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

- Interactive whiteboard
- Sensor/data acquisition
- Keyboard and mouse extension
- Industrial control

Specifications

| | |
|---|--|
| Product Code | IC 00-00404 |
| RANGE | |
| Direct Connect | Up to 100m over CAT 5e/6a/7 |
| SPEEDS | |
| USB 2.0 | Up to 480Mbps |
| USB 1.1 | Up to 12Mbps |
| POWER | |
| Power supply | 100-240V AC Input, 24V 1A DC Output |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB Type B Receptacle | USB Connector: 1x USB Type A Receptacle |
| 1x RJ45 | 1x RJ45 |
| 65.0 x 87.5 x 30.0mm | 65.0 x 87.5 x 30.0mm |
| Slots for cable ties | Slots for cable ties |
| Black ABS with rubberised coating | Black ABS with rubberised coating |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS A), CE (CLASS A) |
| Environmental | RoHS2 (CE) |
| Safety | Flammability V-0 |
| SUPPORT | |
| Warranty | 2 years |



USB 2.0 **Ranger®** 2301GE-LAN Extender.

1-Port USB 2.0 Gigabit Ethernet LAN Extender System

Product Code: IC 00-00399

The USB 2.0 Ranger® 2301GE-LAN is a single-port USB 2.0 high-speed extension solution, enabling USB 2.0 connections at up to 480 Mbps across a Gigabit Ethernet Local Area Network using existing cabling.

The Ranger 2301GE-LAN extends all USB 2.0 peripherals such as flash drives, keyboards, mice, speakers, webcams and interactive white boards across a Local Area Network (LAN) and supports modern USB 3.0 controllers.



Features

- USB 2.0 throughput up to 480Mbps*
- Pre-paired networked configuration for simple installation**
- Supplies up to 1 Amp to USB port
- Mass storage Acceleration for USB 2.0 device bulk transfers
- FCC/CE Class B

Includes the ExtremeUSB-C™ suite of features:

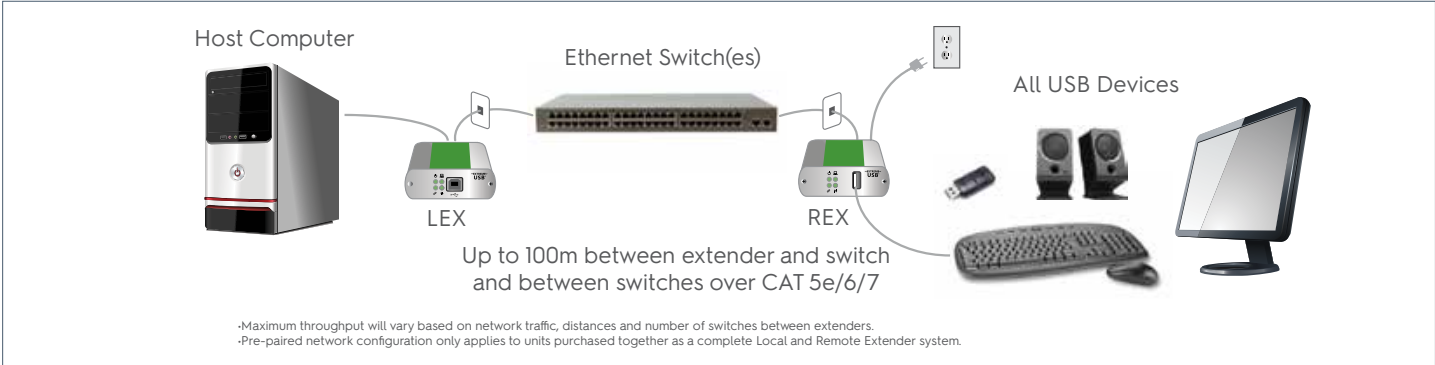
- Transparent USB extension
- True plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

- Remote storage
- Professional Audio-Visual
- Security and monitoring
- Keyboard and mouse

* Maximum throughput will vary based on network traffic, distances and number of switches between extenders.
** Pre-paired network configuration only applies to units purchased together as a complete local and remote extender system.

| Specifications | |
|---|--|
| Product Code | IC 00-00399 |
| RANGE | |
| Direct Connect | Up to 100m over solid coreCAT 5e/6/7 |
| Network Connect | Up to 100m between switches over solid core CAT 5e/6/7 |
| USB DEVICE SUPPORT | |
| 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 |
| POWER | |
| Power supply | 100-240V AC Input, 5V 3A DC Output |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB Type B Receptacle | USB Connector: 1x USB Type A Receptacle |
| Link Connector: 1x RJ45 | Link Connector: 1x RJ45 |
| Dimensions: 86.0 x 75.0 x 26.0mm | Dimensions: 86.0 x 75.0 x 26.0mm |
| Enclosure material: Silver anodized aluminium | Enclosure material: Silver anodized aluminium |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS B), CE (CLASS B) |
| Environmental | RoHS2 (CE) |
| SUPPORT | |
| Warranty | 2 years |



USB 2.0 **Ranger**® 2301 Extender.

1-Port USB 2.0, 100m CAT 5e/6a/7 Extender System

Product Code: IC 00-00394

The USB 2.0 Ranger 2301 is a single-port USB 2.0 high speed extension solution, enabling USB 2.0 connections at up to 480 Mbps over 100m/330ft of CAT 5e/6/7 cabling.

2301 features full device and host support as well as Mass Storage Acceleration for improved USB 2.0 device bulk transfer speeds over previous generation extenders and the ExtremeUSB® suite of features.



Features

- USB 2.0 throughput up to 480Mbps
- Operates with all USB controllers
- Supplies up to 1 Amp to USB port
- Mass Storage Acceleration for USB 2.0 device bulk transfer speeds
- FCC/CE Class B

Includes the ExtremeUSB-C™ suite of features:

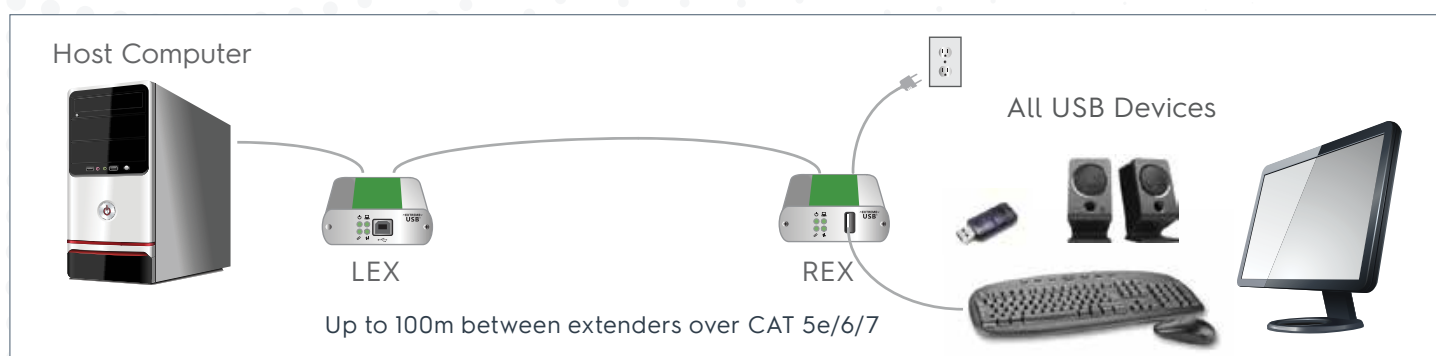
- Transparent USB extension
- True plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

- Remote storage
- Professional Audio-Visual
- Security and monitoring
- Keyboard and mouse

Specifications

| | |
|---|--|
| Product Code | IC 00-00394 |
| RANGE | |
| Direct Connect | Up to 100m over solid coreCAT 5e/6/7 |
| USB DEVICE SUPPORT | |
| 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 |
| POWER | |
| Power supply | 100-240V AC Input, 5V 3A DC Output |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | REX (REMOTE EXTENDER) MECHANICAL DATA |
| USB Connector: 1x USB Type B Receptacle | USB Connector: 1x USB Type A Receptacle |
| Link Connector: 1x RJ45 | Link Connector: 1x RJ45 |
| Dimensions: 86.0 x 75.0 x 26.0mm | Dimensions: 86.0 x 75.0 x 26.0mm |
| Enclosure material: Silver anodized aluminium | Enclosure material: Silver anodized aluminium |
| Available Current: up to 1 Amp to USB port | Enclosure material: Silver anodized aluminium |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 50°C |
| Storage Temperature | -20°C - 70°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| Storage Humidity | 10-90% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS B), CE (CLASS B) |
| Environmental | RoHS2 (CE) |
| SUPPORT | |
| Warranty | 2 years |



KVM Extenders.

Icron's KVM extenders build upon ExtremeUSB® suite of features by adding high definition video inputs and outputs. Choose from DVI+USB to HDMI+USB extension solutions over a single CAT 5e/6/7 cable.



AN ANALOG DEVICES BRAND

Product Selection Guide.



USB 2.0 EL5353 DVI Extender



USB 2.0 EL5363 HDMI Extender

| Product | Product Code | Video Type | Maximum Resolution | Distance | Transmission | Throughput | USB 2.0 and 1.1 Device Support |
|---------|--------------|-------------------|--------------------------|----------|--|----------------|---|
| EL5353 | IC 00-00383 | DVI Uncompressed | 1920 x 1200 | 100m | Single CAT 5e/6/7 cable. CAT 6 recommended | USB 2.0 40Mbps | Keyboards, mice, flash drives, audio peripherals, USB 1.1 web cameras |
| EL5363 | IC 00-00388 | HDMI Uncompressed | 4K, 1080p or 1920 x 1200 | 100m | Single CAT 5e/6/7 cable. CAT 6 recommended | USB 2.0 40Mbps | Keyboards, mice, flash drives, audio peripherals, USB 1.1 web cameras |



USB 2.0 EL5353 DVI Extender.

DVI + USB Extender System

Product Code: IC 00-00383

The EL5353 KVM Extender System features the latest and most robust HD video and USB extension technology from Icron Technologies. The EL5353 extends both DVI and USB 2.0 applications up to 100m over a single CAT 5e/6/7 cable.

The EL5353 KVM Extender lets you place a computer up to 100m (330 ft) away from a workstation using a single CAT 5e/6/7 cable. The system supports full HD video and USB 2.0, providing the ability to control keyboards, mice, flash drives, audio peripherals and other USB 2.0 and 1.1 devices.



Features

- USB 2.0 throughput up to 40Mbps
- Point to point video and USB extension up to 100m over a single CAT 5e/6/7 cable
- 24 bit-colour depth
- Full uncompressed 1920 x 1200 resolution HD video

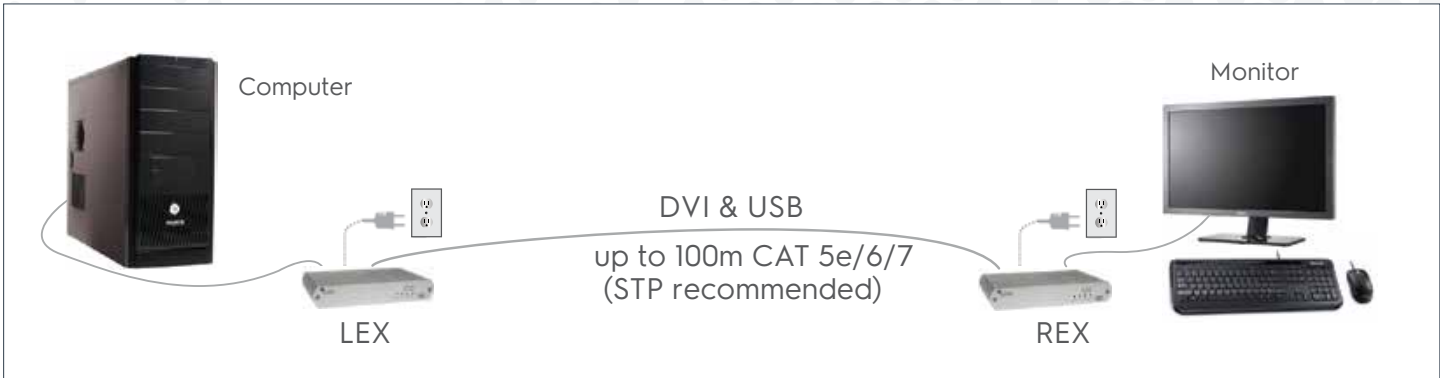
Includes the ExtremeUSB® suite of features:

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

Applications

- Interactive Digital Signage
- Professional Audio-Visual
- Security
- Medical Extension
- Industrial control

| Specifications | |
|--------------------------------------|--|
| Product Code | IC 00-00383 |
| RANGE | |
| Direct Connect | Up to 100m over a single CAT 5e/6/7 |
| USB DEVICE SUPPORT | |
| Maximum throughputs | USB 2.0: Up to 40Mbps USB 1.1: Up to 12Mbps |
| Video Connector | 1 x DVI |
| Link Connector | 1 x RJ45 |
| POWER | |
| Power supply | 100-240V AC Input, 5V DC Output |
| REX (LOCAL EXTENDER) MECHANICAL DATA | |
| USB Connector: | 1x USB Type A Receptacle |
| Link Connector: | 1x RJ45 |
| Dimensions: | 112.0 x 175.0 x 30mm |
| Enclosure material: | Silver Anodized Aluminium |
| Available Current: | 500mA for each USB port |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 40°C |
| Operating Humidity | 20-80% relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (CLASS B), CE (CLASS B) |
| Environmental | RoHS2 (CE) |
| SUPPORT | |
| Warranty | 2 years |



USB 2.0 EL5363 HDMI Extender.

HDMI + USB Extender System



Product Code: IC 00-00388

The EL5363 KVM Extender System features the latest and most robust HD video and USB extension technology from Icron Technologies. The EL5363 extends both HDMI and USB 2.0 up to 100m using a single CAT 5e/6/7 cable.

The EL5363 KVM Extender lets you place an HDMI Host up to 100m away from a viewing area using a single CAT 5e/6/7 cable. The system supports full HD video and USB 2.0, providing the ability to control keyboards, mice, flash drives, audio peripherals and other USB 2.0 and 1.1 devices.

Features

- USB 2.0 throughput up to 40 Mbps
- Point to point video and USB extension up to 100m over a single CAT 5e/6/7 cable
- Full compressed HD video: 4kp30 1080p and 1920x1200 resolution
- 3D
- Deep colour
- x.v colour
- Lip Sync Pass-through
- CEC Pass-through
- HDCP Pass-through

Includes the ExtremeUSB® suite of features:

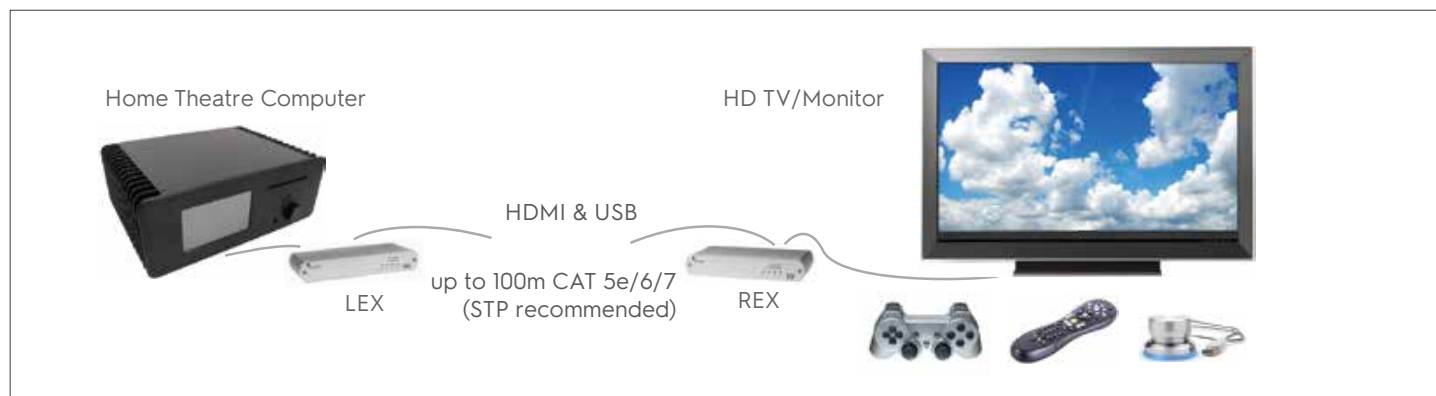
- Transparent USB extension
- True plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

- Interactive Digital Signage
- Medical Extension
- Industrial control
- Home Theatre

Specifications

| | |
|---|--|
| Product Code | IC 00-00388 |
| RANGE | |
| Direct connect | Up to 100m over solid core CAT 5e/6/7 |
| USB DEVICE SUPPORT | |
| Maximum throughputs | USB 2.0: Up to 40Mbps USB 1.1: Up to 12Mbps |
| Device types | All USB 2.0 and 1.1 Device types |
| Maximum Number | Up to 30 devices |
| Power supply | 100-240V AC Input, 5V DC Output |
| LEX (LOCAL EXTENDER) MECHANICAL DATA | |
| USB Connector: 1x USB Type B Receptacle | |
| Link Connector: 1x RJ45 | |
| Dimensions: 112.0 x 175.0 x 30mm | |
| Enclosure material: Silver Anodized Aluminium | |
| REX (REMOTE EXTENDER) MECHANICAL DATA | |
| USB Connector: 1x USB Type A Receptacle | |
| Link Connector: 1x RJ45 | |
| Dimensions: 112.0 x 175.0 x 30mm | |
| Enclosure material: Silver Anodized Aluminium | |
| Available current | Up to 1 Amp to USB port |
| ENVIRONMENTAL | |
| Operating Temperature | 0°C - 40°C |
| Operating Humidity | 20% to 80%, relative humidity, non-condensing |
| COMPLIANCE | |
| EMC | FCC (Class A), CE (Class A), ICES-003 |
| Environmental | RoHS2 (CE) |
| SUPPORT | |
| Warranty | 2 years |





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