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A Maxim Integrated Brand

USB & HD Video Extension Solutions.

Innovate.

MadisonAV is an Australian owned and operated business that innovates, distributes and supports a range of high-quality AV product solutions from globally recognised brands.

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 and New Zealand.

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

Contents

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™
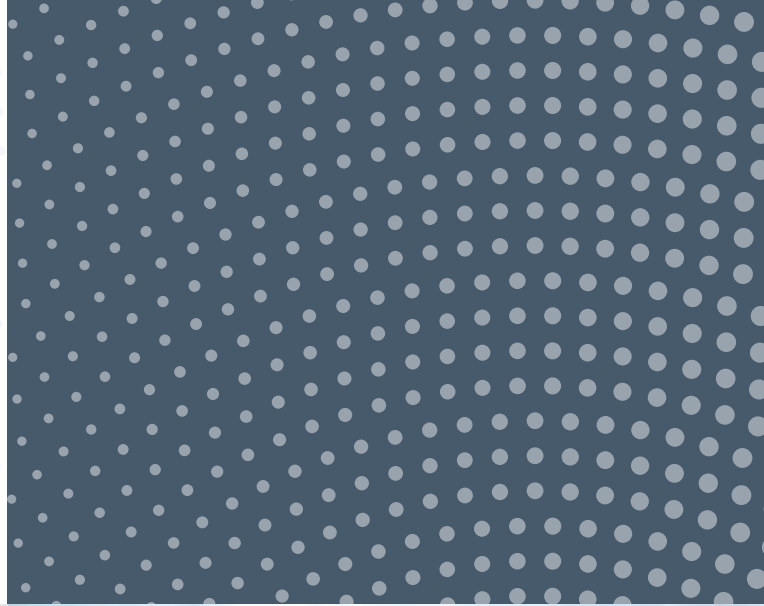
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USB Extenders.

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™.

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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™ 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
USB 1.1 Rover® 2850	IC 00-00312	USB 1.1	85m[5]	CAT 5e/6/7	Bus Powered	2
USB 1.1 Rover® 1850	IC 00-00301	USB 1.1	85m[5]	CAT 5e/6/7	Bus Powered	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™ 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
Angekis	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
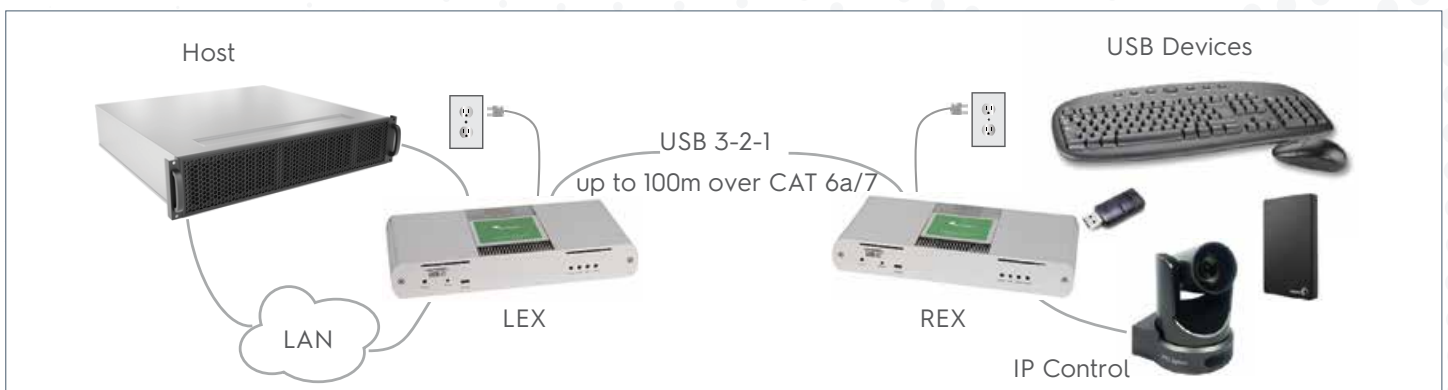- Point-to-point connection
- Isochronous support

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, Interupt, 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 Operating	0°C - 50°C -20°C - 70°C Storage	
Humidity	20-80% Operating, 10-90% Storage Relative humidity non-condensing	
SUPPORT		
Warranty	2 years	

Host

USB Devices

USB 3-2-1
up to 100m over CAT 6a/7

LAN   LEX   REX

IP Control

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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

Industry's First USB 3-2-1 Extender Over Category Cable

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 Operating	0°C - 45°C -20°C - 70°C Storage	
Humidity	20-80% Operating, 10-90% Storage Relative humidity non-condensing	
SUPPORT		
Warranty	2 years	

Host   USB Devices

USB 3-2-1
up to 100m over CAT 6a/7

LAN   LEX   REX

IP Control

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
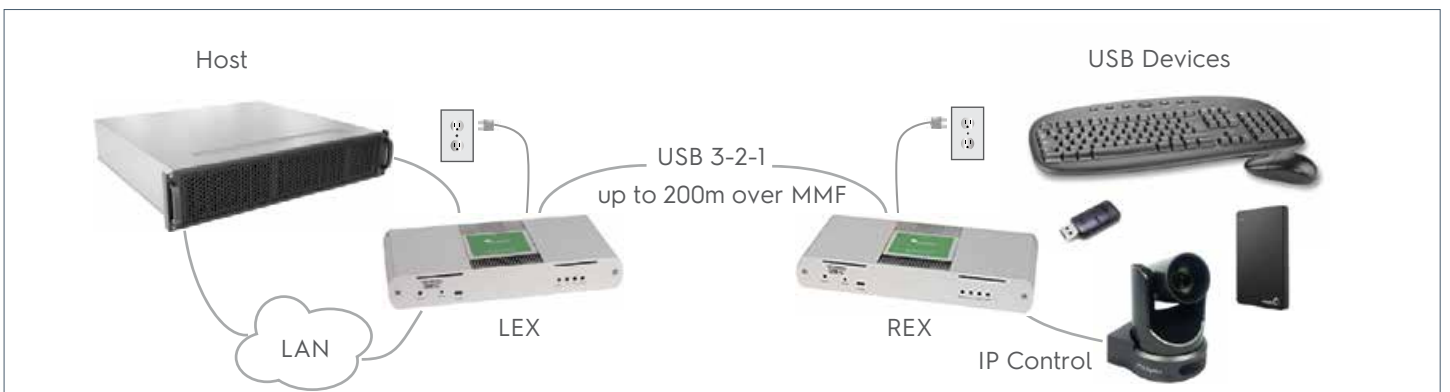- Point-to-point connection

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

Host   USB Devices

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

LAN   LEX   REX

IP Control

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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
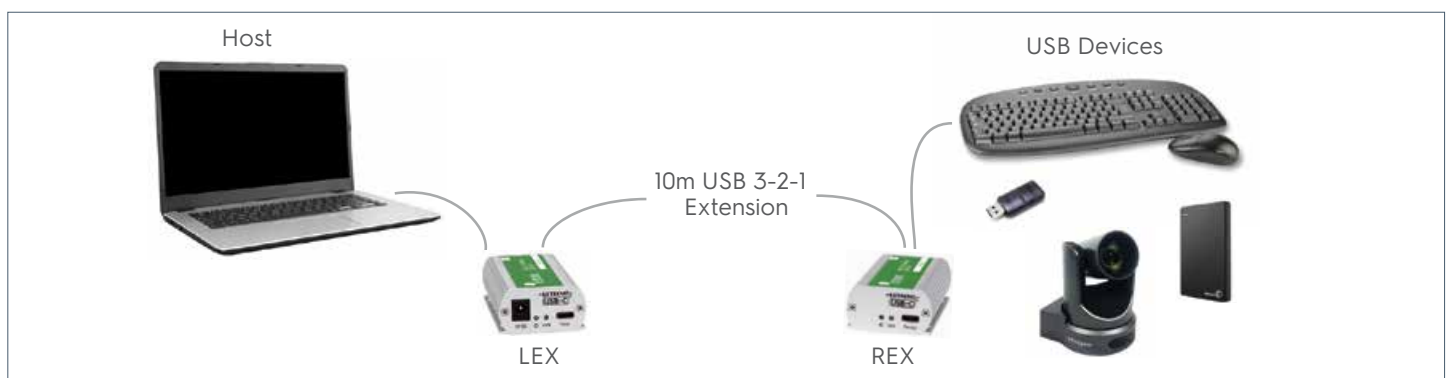- Works with all major operating systems: Windows®, macOS™, Linux® and Chrome OS™

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 ARJ45 Link Port	Link Connector: 1x ARJ45 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

Host — 10m USB 3-2-1 Extension — USB Devices

LEX — REX

USB 3.0 Spectra® 3022 Extender.

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

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.

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.
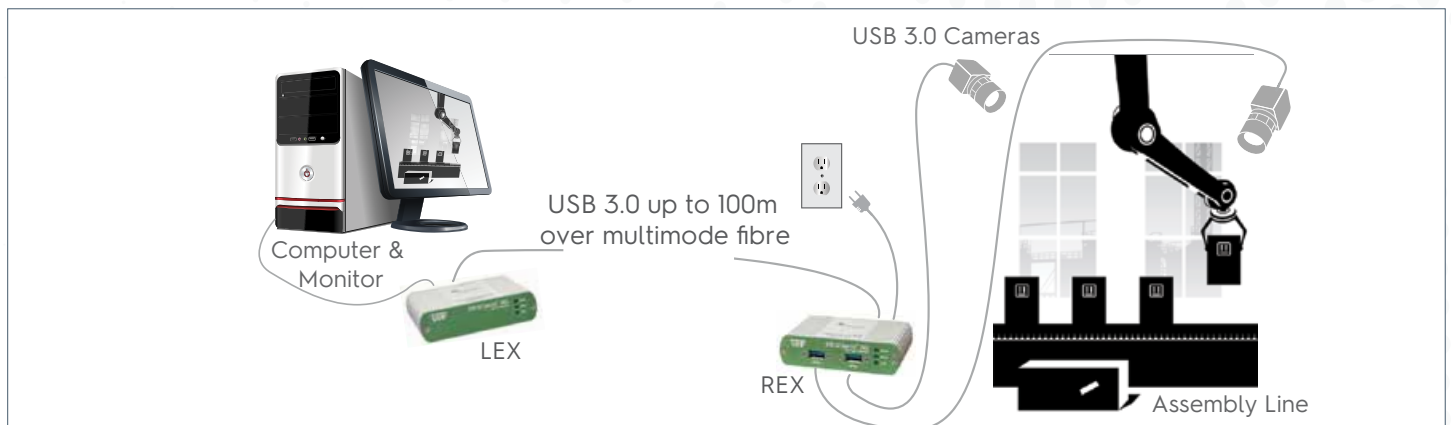
Specifications	
Product Code	IC 00-00330
RANGE	
OM2 Multimode Fibre	Up to 50m
OM3 Multimode Fibre	Up to 100m
SPEEDS	
USB 3.0	Up to 5Gbps (not backward compatible with USB 2.0/1.1)
POWER	
Power supply	100-240V AC Brick, Locking
LEX (LOCAL EXTENDER) MECHANICAL DATA	**REX (REMOTE EXTENDER) MECHANICAL DATA**
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 Cameras • USB 3.0 up to 100m over multimode fibre • Computer & Monitor • LEX • REX • Assembly Line

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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 3.0 Cameras

USB 3.0 15m active copper cable

Computer & Monitor

Assembly Line

USB 2.0 Ranger® 2304GE-LAN Extender.

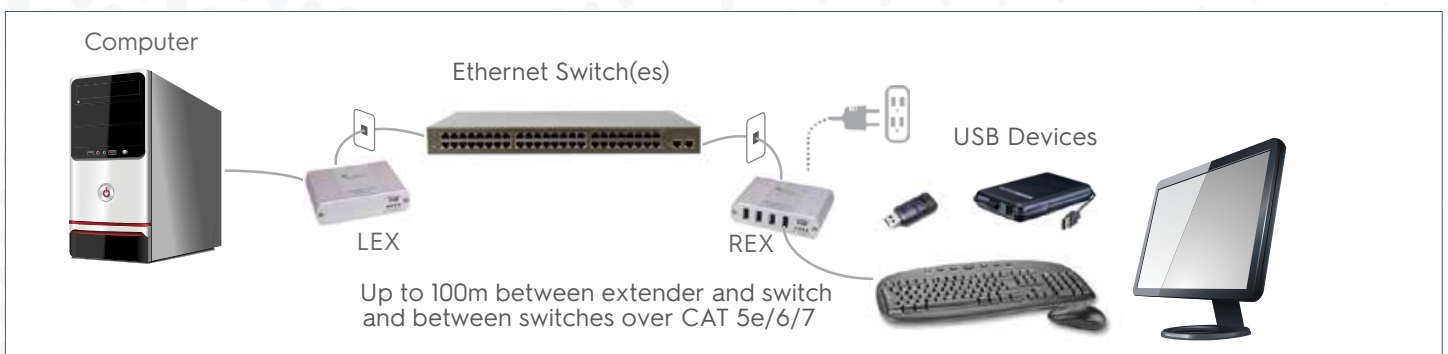## 4-Port USB 2.0 Gigabit Ethernet LAN Extender System

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.

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.

Specifications

Product Code	IC 00-00379
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	
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) MECHANICAL DATA	REX (REMOTE EXTENDER) 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

Computer

Ethernet Switch(es)

USB Devices

LEX

REX

Up to 100m between extender and switch and between switches over CAT 5e/6/7

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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:

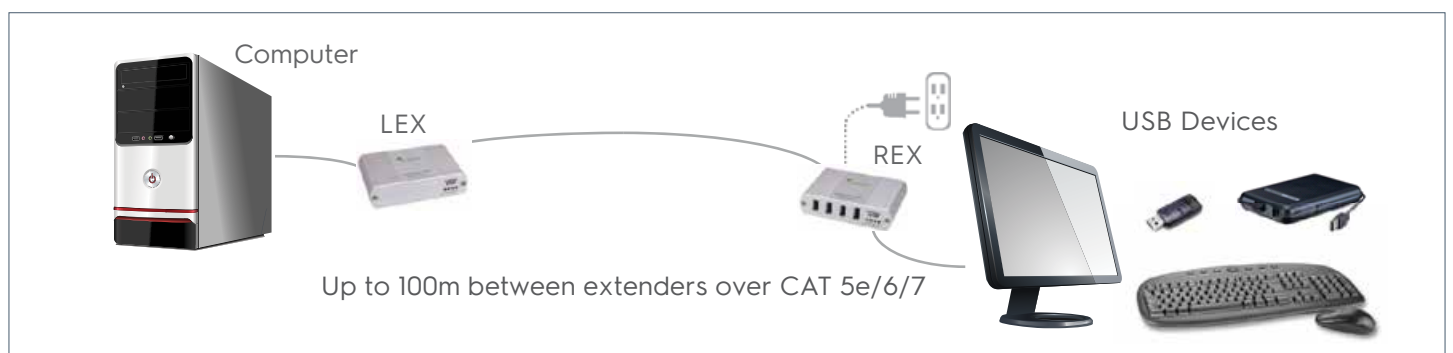- Transparent USB extension
- True plug and play; no software drivers required
- Works with all major operating systems: Windows™, macOS™ and Linux®

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

Computer

LEX

REX

USB Devices

Up to 100m between extenders over CAT 5e/6/7

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 mount 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.

Ranger® 2324

Ranger® 2344

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

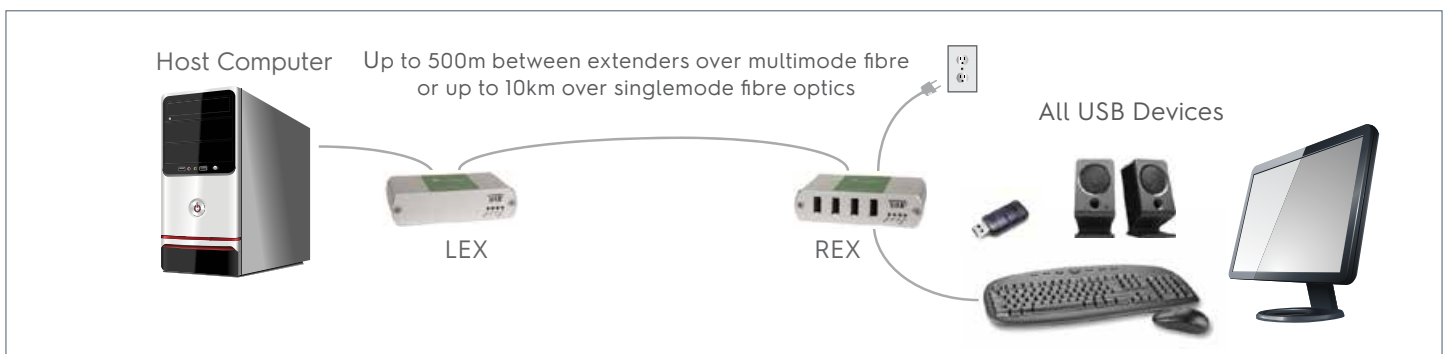### Includes the ExtremeUSB® suite of features:

- 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

Host Computer — Up to 500m between extenders over multimode fibre or up to 10km over singlemode fibre optics

All USB Devices

LEX

REX

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
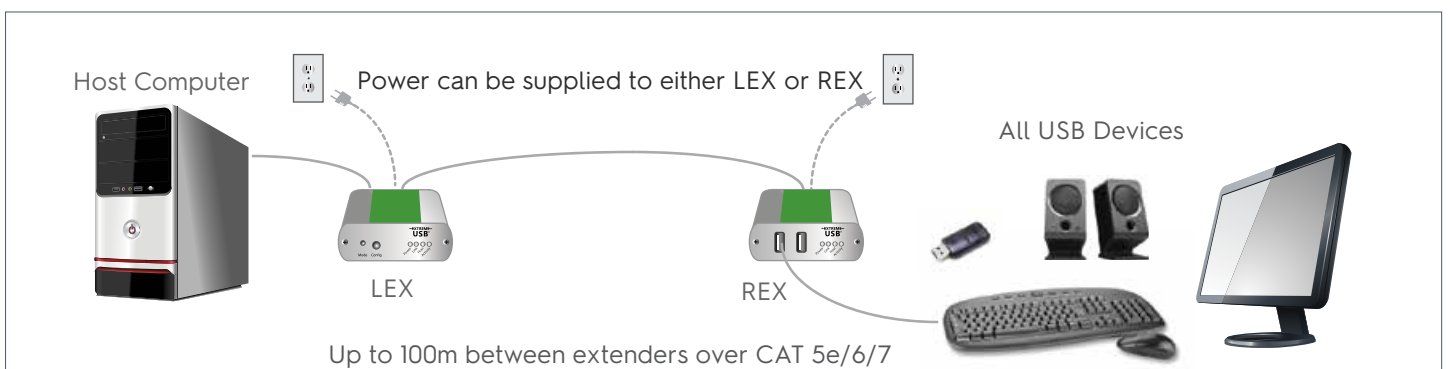
Includes the ExtremeUSB-C™ suite of features:

- 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

Host Computer — Power can be supplied to either LEX or REX — All USB Devices

LEX — REX

Up to 100m between extenders over CAT 5e/6/7

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
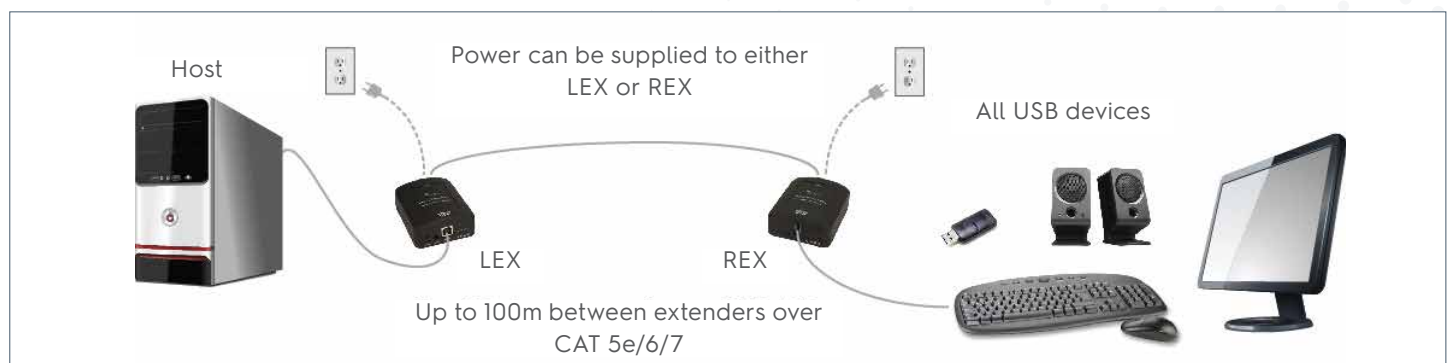- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

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

Specifications

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

Host

Power can be supplied to either LEX or REX

All USB devices

LEX   REX

Up to 100m between extenders over CAT 5e/6/7

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
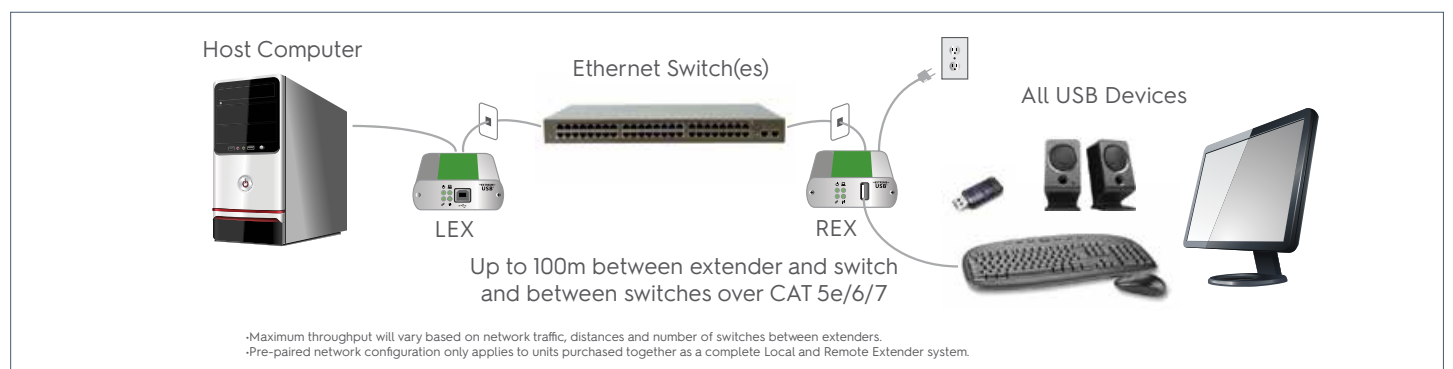- Works with all major operating systems: Windows™, macOS™ and Linux®

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

Host Computer

Ethernet Switch(es)

All USB Devices

LEX

REX

Up to 100m between extender and switch and between switches over CAT 5e/6/7

·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.

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
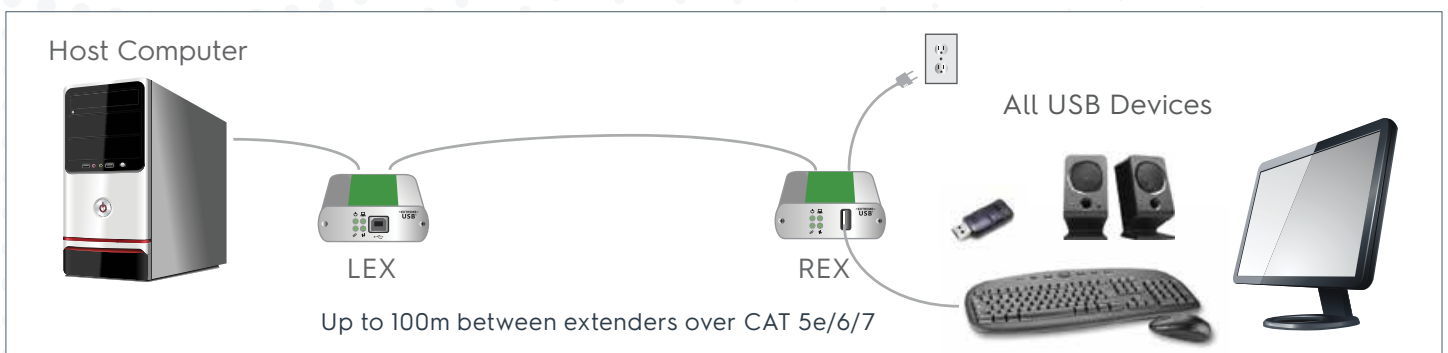
Includes the ExtremeUSB-C™ suite of features:
• Transparent USB extension
• True plug and play; no software drivers required
• Works with all major operating systems: Windows™, macOS™ and Linux®

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

Host Computer — LEX — REX — All USB Devices

Up to 100m between extenders over CAT 5e/6/7

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USB Rover 1.1 CAT 5 Extenders.

USB Rover 1850/2850 1 & 2 Port CAT 5 1.1 Extender System

Rover 1850 Product Code: IC 00-00301

Rover 2850 Product Code: IC 00-00312

The USB Rover 1850 & 2850 extend USB 1.1 connections beyond the desktop to 40 metres (up to 85 metres with low-speed HD devices such as keyboards and mice).

The Rover USB uses technology ideal for extending USB peripherals including: keyboards, mice, interactive white boards, and game controllers and does not require external power adapters.

Features

- Supports both full-speed (12 Mbps) and low-speed (1.5Mbps) throughputs
- Remote extender supplies up to 400 mA* to USB devices
- Robust ESD and EFT immunity for industrial environments

Includes the ExtremeUSB® suite of features:

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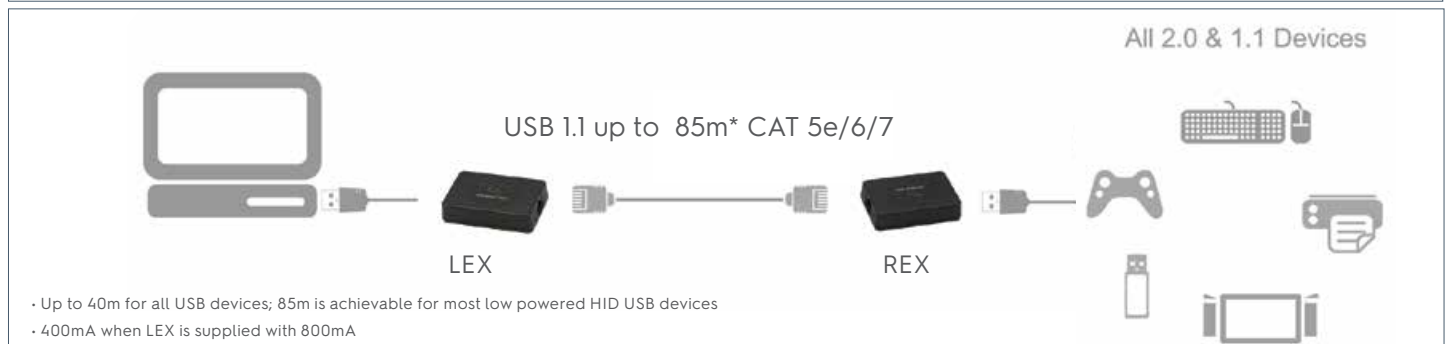- Works with all major operating systems: Windows™, macOS™ and Linux®

Applications

- Interactive Whiteboard
- KVM Extension: Keyboard and mouse
- Corporate Boardroom: USB Device extension
- Industrial Control

* Maximum current available: 400mA shared between USB ports when LEX is supplied with 800mA.

Specifications	
Product Code: Rover 1850	**IC 00-00301**
Product Code: Rover 2850	**IC 00-00312**
RANGE	
Full speed	Up to 40m
Low Speed	Up to 85m
POWER	
Power supply	Bus powered
LEX (LOCAL EXTENDER) MECHANICAL DATA	**REX (REMOTE EXTENDER) MECHANICAL DATA**
USB Connector: 1x USB Type B Receptacle	USB Connector: 1850: 1x USB Type A Receptacle 2850: 2x USB Type A Receptacles
Link Connector: 1x RJ45	Link Connector: 1x RJ45
Dimensions: 85.0 x 55.0 x 22.0mm	Dimensions: 85.0 x 55.0 x 22.0mm
Enclosure material: Black ABS	Enclosure material: Black ABS
ENVIRONMENTAL	
Operating Temperature	0°C - 50°C
Safety	CPSIA, Flammability V-1
COMPLIANCE	
EMC	FCC (Class B), CE (Class B)
Immunity	CE Criteria A
Environmental	RoHS2 (CE)
SUPPORT	
Warranty	3 years

USB 1.1 up to 85m* CAT 5e/6/7

REX

LEX

- Up to 40m for all USB devices; 85m is achievable for most low powered HID USB devices
- 400mA when LEX is supplied with 700mA

All 2.0 & 1.1 Devices

USB 1.1 up to 85m* CAT 5e/6/7

LEX

REX

- Up to 40m for all USB devices; 85m is achievable for most low powered HID USB devices
- 400mA when LEX is supplied with 800mA

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.

icron
A Maxim Integrated Brand

Product Selection Guide.

USB 2.0 EL5353 DVI Extender

USB 2.0 EL5363 HDMI Extender

USB 3-2-1 Maverick™ 63104 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
Maverick 63104	IC 01-00635	Display Port 4K60	UHD 4K, 3840 x 2160 @60Hz	100m	Single CAT 6a/7 cable	USB 3.1 Gen 1 data rate up to 5Gbps	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
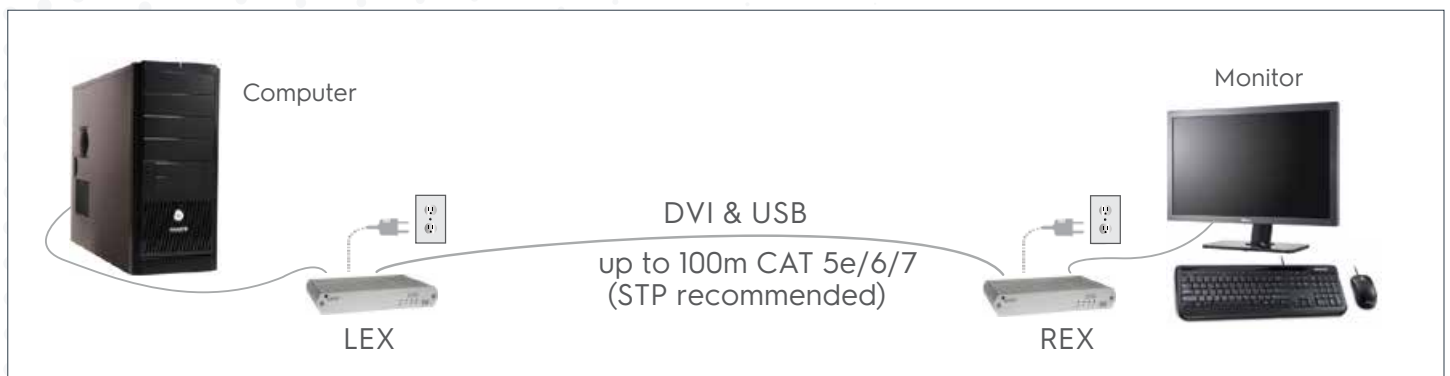- Works with all major operating systems: Windows™, macOS™ and Linux®

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

Computer

Monitor

DVI & USB
up to 100m CAT 5e/6/7
(STP recommended)

LEX

REX

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

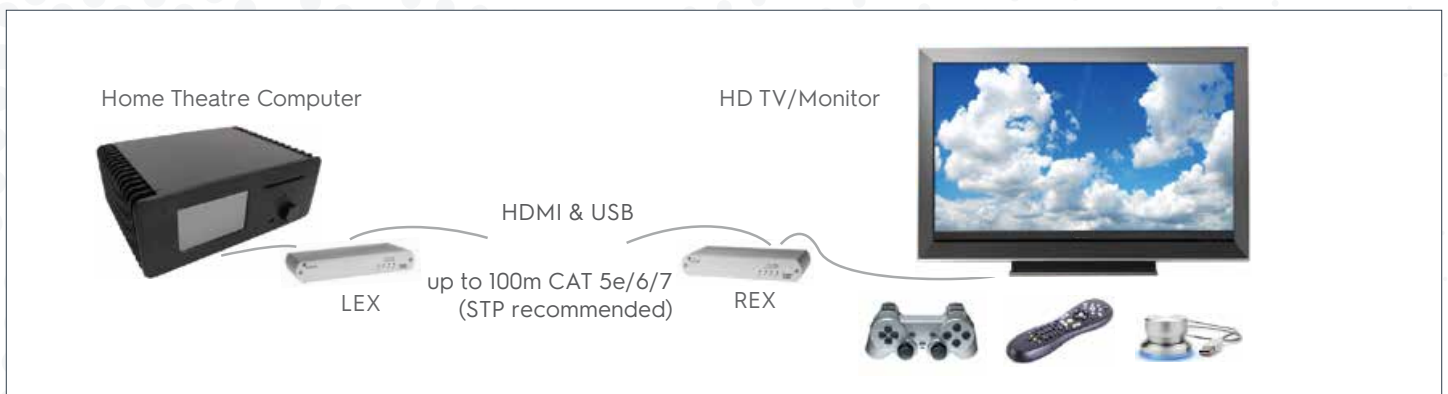**Includes the ExtremeUSB® suite of features:**

- 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	**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: 112.0 x 175.0 x 30mm	Dimensions: 112.0 x 175.0 x 30mm
Enclosure material: Silver Anodized Aluminium	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

Home Theatre Computer

HD TV/Monitor

HDMI & USB

LEX

up to 100m CAT 5e/6/7
(STP recommended)

REX

USB 3-2-1 Maverick™ 63104 Extender.

DisplayPort 1.2a and USB 3.1, 5Gbps Point-to-Point Extender System over CAT 6a/7

Industry's first DisplayPort 4Kp60 and USB 3-2-1 Extender over a single CAT 6a/7 cable up to 100m

Product Code: IC 01-00635

The DisplayPort 1.2a 4Kp60 4:4:4 and USB 3.1 Gen 1 Maverick™ 63104 provides the ability to connect all USB device types and a single DisplayPort sink back to a host across a point-to-point connection up to 100m over CAT 6a/7.

The Maverick™ 63104 also includes an Ethernet pass-through for connecting to network enabled devices or to use existing infrastructure without losing LAN connectivity, as well as an RS232 pass-through channel for command and control applications or RS232 enabled devices.

Features

- DisplayPort 1.2a
- Resolutions up to UHD 4K, 3840 x 2160 @60Hz
- YCbCr 4:4:4 and RGB colour support up to 10bpc
- 2 Channel DisplayPort Audio
- 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
- Bidirectional RS232 up to 115200 baud rate
- Single cable, CAT 6a/7 up to 100m
- Point-to-point connection
- FCC and CE (Class B) compliant

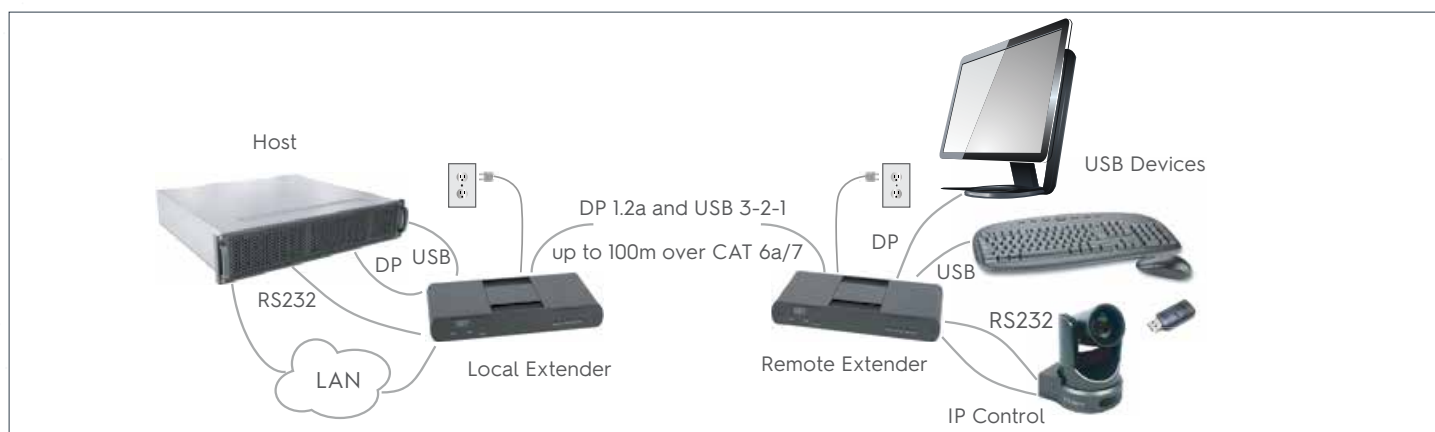**Includes the ExtremeUSB® suite of features:**

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

Applications

- Medical Imaging
- Video Production
- Interactive Digital Signage
- Industrial Control/HMI

Specifications	
Product Code	IC 01-00635
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
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
Dimensions: 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 100/1000 Port	1x RJ45 Ethernet 100/1000 Port
1x DisplayPort 1.2a receptacle	1x DisplayPort 1.2a receptacle
1x RS232 3-Pin terminal block	1x RS232 3-Pin terminal block
1x RJ45 Link Port	1x RJ45 Link Port
24V 1A DC Locking Jack	24V 2.71A DC Locking Jack
920g	990g

ENVIRONMENTAL	
Temperature Storage	0°C - 50°C Operating -20°C - 70°C Storage
Humidity	20-80% Operating, 10-90% Storage Relative humidity non-condensing
SUPPORT: Warranty	2 years

Host
DP USB
RS232
LAN
Local Extender
DP 1.2a and USB 3-2-1 up to 100m over CAT 6a/7
Remote Extender
DP
USB
RS232
USB Devices
IP Control

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Brisbane Head Office
Level 2, Building 1
61 Metroplex Ave
Murarrie QLD 4172

Melbourne
51 Barclay Road
Derrimut VIC 3026

Sydney
149 Beaconsfield Street
Silverwater NSW 2128

Perth
56 Clavering Road
Bayswater WA 6053

New Zealand
Unit 27
761-779 Great South Road
Penrose, Auckland, 1061
P 0508 78 88 89

MAVICRON21-5

beyond connected