



icron

A Maxim Integrated Brand

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**EXTREME
USB**

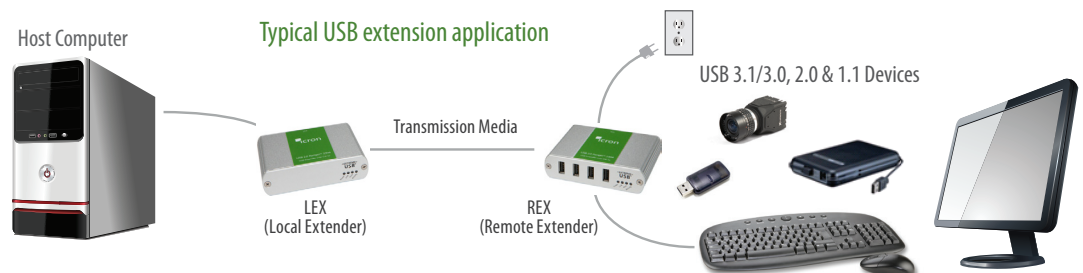
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#90-01692-A03

Icron USB and KVM Extender Solutions

All Icron extender solutions include the ExtremeUSB® suite of features such as transparent USB extension, true plug and play (no software drivers), and compatibility with Windows®, macOS™, Linux® and Chrome OS™ operating systems. A complete system includes a LEX (Local Extender), a REX (Remote Extender) and a power adapter if required.

| | USB Type | USB Extender Model | Max. Distance | Transmission Media | Power Adapter Location | USB Port(s) |
|-----------------------|----------------|---|-------------------|---------------------|--|-------------|
| USB Extenders | 3.1 Gen 1 | USB 3-2-1 Raven™ 3124 | 200m | Multimode Fiber | LEX and REX | 4 |
| | 3.2 Gen 1 | USB 3-2-1 Raven™ 3104 Pro | 100m | CAT 6a/7 | LEX and REX | 4 |
| | 3.1 Gen 1 | USB 3-2-1 Raven™ 3104 | 100m | CAT 6a/7 | LEX and REX | 4 |
| | 3.0 | USB 3.0 Spectra™ 3022 ^① | 100m ^② | Multimode Fiber | REX | 2 |
| | 3.0 | USB 3.0 Spectra™ 3001-15 ^① | 15m | Active Copper Cable | Bus Powered | 1 |
| | 2.0 | USB 2.0 Ranger® 2344 | 10km | Singlemode Fiber | REX | 4 |
| | 2.0 | USB 2.0 Ranger® 2324 | 500m | Multimode Fiber | REX | 4 |
| | 2.0 | USB 2.0 Ranger® 2312 | 100m | CAT 5e/6/7 | LEX or REX | 2 |
| | 2.0 | USB 2.0 Ranger® 2311 | 100m | CAT 5e/6/7 | LEX or REX | 1 |
| | 2.0 | USB 2.0 Ranger® 2304GE-LAN ^③ | 100m | CAT 5e/6/7 or LAN | REX | 4 |
| | 2.0 | USB 2.0 Ranger® 2304 | 100m | CAT 5e/6/7 | REX | 4 |
| | 2.0 | USB 2.0 Ranger® 2301GE-LAN ^③ | 100m | CAT 5e/6/7 or LAN | REX | 1 |
| | 2.0 | USB 2.0 Ranger® 2301 | 100m | CAT 5e/6/7 | REX | 1 |
| | 1.1 | USB 1.1 Rover® 2850 | 85m ^④ | CAT 5e/6/7 | Bus Powered | 2 |
| | 1.1 | USB 1.1 Rover® 1850 | 85m ^④ | CAT 5e/6/7 | Bus Powered | 1 |
| Video + USB Extenders | USB Throughput | KVM Extender Model | Max. Distance | Transmission Media | Video Type and Max. Resolution | USB Port(s) |
| | 40Mbps | EL5353 DVI + USB 2.0 | 100m | CAT 5e/6/7 | DVI Uncompressed 1920 x 1200 | 3 |
| | 40Mbps | EL5363 HDMI + USB 2.0 | 100m | CAT 5e/6/7 | HDMI Uncompressed 4Kp30, 1080p, 1920 x 1200 | 3 |

- ① USB 3.0 Spectra extenders are not backward compatible with USB 2.0 and 1.1 devices.
- ② The maximum distance is 50m with storage type USB 3.0 devices; 100m or more is achievable when using USB 3.0 bulk traffic cameras.
- ③ Works over a LAN although does not support SwitchableUSB™ protocol.
- ④ Up to 40m is achievable for all USB devices; 85m is achievable for most low-powered HID USB devices.



Market Applications

USB has become the de facto standard for computer peripheral connectivity spanning broad markets and applications. However, many applications are challenged by USB's distance limitation of five meters for USB 2.0 and approximately three meters for USB 3.1/3.0, where the host computer needs to be located beyond these distances from the user. Icron's ExtremeUSB® extender solutions bridge the gap with simple plug and play installation and compatibility with all major operating systems.



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Pro AV

Web conferencing and audio extension
Room reservations over corporate LAN
Video matrix switching



Broadcasting

Post production editing
Mobile production truck
Remote storage



Industrial Automation

Machine Vision
Kiosk controls and sensors
Robotics



Digital Signage

Store directories
Interactive menus
Point of purchase displays



Security

Facial recognition cameras
Finger print imaging
Retinal scanners



Education

Interactive whiteboards and touchscreens
Virtual reality learning
USB audio extension



Military/Aerospace

Command and control centers
Remote stations
Device Class Filtering



Medical

CT Scan and MRI machines
Patient monitoring
Remote record access



Oil/Mining/Gas

Well-head flow monitoring
Asset management
Data logging and intrusion alarming

For more information, please contact Icron at IcronSales@MaximIntegrated.com.