
# Icron Product Overview

Icron's USB extension products come packaged as a complete system which includes a Local Extender (LEX), a Remote Extender (REX), and a power adapter.

icron

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| Product | USB | Distance (meters) | Transmission | Power | | USB Ports |
|---|---|---|---|---|---|---|
| | | | | Local (LEX) | Remote (REX) | |
| **USB Rover 1850** | USB 1.1 | 40[1] | Cat 5 | Bus Powered | Bus Powered | 1 |
| **USB Rover 2850** | USB 1.1 | 40[1] | Cat 5 | Bus Powered | Bus Powered | 2 |
| **USB Ranger 2101** | USB 2.0 | 100 | Cat 5 | Bus Powered | Power Adapter | 1 |
| **USB Ranger 2104** | USB 2.0 | 100 | Cat 5 | Bus Powered | Power Adapter | 4 |
| **USB Ranger 2211** | USB 2.0 | 100 | Cat 5 | Bus Powered or Power Adapter[3] | Remote Powered or Power Adapter[3] | 1 |
| **USB Ranger 2212** | USB 2.0 | 100 | Cat 5 | Power Adapter | Remote Powered[2] | 2 |
| **USB Ranger 2201** | USB 2.0 | 100 | Cat 5 | Bus Powered | Power Adapter | 1 |
| **USB Ranger 2204** | USB 2.0 | 100 | Cat 5 | Bus Powered | Power Adapter | 4 |
| **USB Ranger 2224** | USB 2.0 | 500 | Fiber | Bus Powered | Power Adapter | 4 |
| **USB Ranger 2244** | USB 2.0 | 10k | Fiber | Bus Powered | Power Adapter | 4 |

[1] 85 meters may be achievable with low-speed HID devices such as keyboards and mice
[2] Power is delivered over a Cat 5 (or better) cable to the remote unit.
[3] Either the LEX or REX can use a power adapter. Only one is required.

Where USB 2.0 is listed, USB 1.1 devices are also supported.

Use of power adapter between units is interchangeable - either with Lex or Rex


Industrial Automation


Medical


Digital Signage


#90-00725-A07


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## USB FAQs

### What is USB 1.1?

USB 1.1 provides support for two interface speeds: Low-Speed at 1.5Mb/s and Full-Speed at 12Mb/s. The two interface speeds target specific classes of devices to provide the most efficient and cost-effective interconnect solution. Low-Speed devices are typically interactive input devices such as keyboards, mice or game controllers. Full-Speed devices are typically application specific input devices such as microphones, cameras and printers.

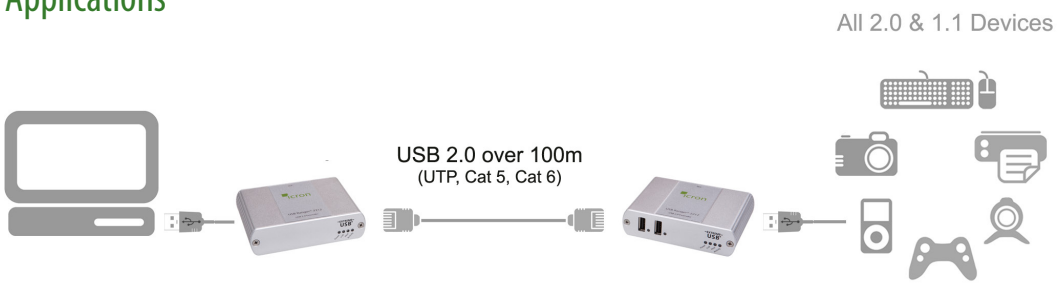
### What is USB 2.0?

USB 2.0 was developed to offer a complementary High-Speed transfer rate at 480Mb/s. Backwards compatible with the Full-Speed and Low-Speed transfer rates of USB 1.1, USB 2.0 delivers a significant bandwidth increase. USB 2.0 will continue to provide cost-effective and convenient peripheral connectivity.

### What is USB 3.0?

The SuperSpeed USB 3.0 systems will provide a performance enhancement of speeds up to 5.0 Gb/s with distances up to 3 meters (9.8 feet) for newer storage and multimedia devices, greatly improving transfer times for large files and blocks of data. USB 3.0 plugs will be backwards compatible with USB 2.0 devices. For example, you can plug in a USB 3.0 cable into a USB 2.0 port. However, a new USB 3.0 Standard-B receptacle has been designed to accept only USB 3.0 plugs along with a new mini USB 3.0 connector. The USB 3.0 connectors are designed to coexist and not replace a USB 2.0 connector.

## Applications




## Markets

### Industrial Control/Automation:

Allows for remote control and monitoring of equipment.

### Digital Signage/Interactive Kiosks:

Interact with displays which are located at significant distances from the host or server.

### KVM Extension:

Provides remote keyboard, video, and mouse separating the user from the PC.

### Medical Device Connectivity:

Allows for the PC to be located remotely from medical imaging or diagnostic equipment.

### Pro AV:

Remotely access your USB Pro AV equipment from a secure location.

### Security Web Camera/Access Control:

Capture video at distances up to 10km on Fiber Optics or 100m on Cat 5.

### Education:

Enables the use of remote projectors or interactive white boards within the classroom.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