# Product Datasheet - Technical Specifications

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# USB 2.0 Ranger® 2301GE-LAN Extender

## 1-port USB 2.0 Gigabit Ethernet LAN Extender System

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 480Mbps across a Gigabit Ethernet Local Area Network using existing cabling. It 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.

LEX

REX

## Features

The Ranger 2301GE-LAN extends all USB 2.0 peripherals such as flash drives, keyboards, mice, speakers, webcams and interactive whiteboards across a Local Area Network (LAN) and supports modern USB 3.0 controllers.
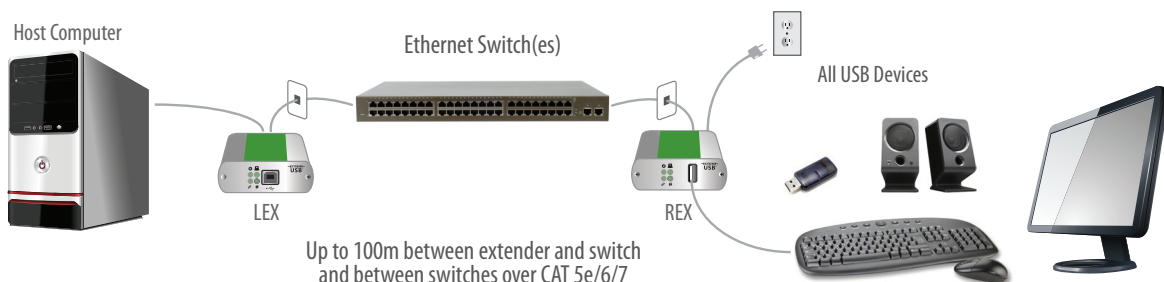
- USB 2.0 throughput up to 480Mbps*
- Pre-paired networked configuration** for simple installation
- Supplies up to 1 Amp to USB port
- Mass Storage Acceleration for USB 2.0 device bulk transfers
- FCC/CE Class B

Includes the ExtremeUSB® suite of features:

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

## Applications

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

Host Computer

Ethernet Switch(es)

All USB Devices

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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.

An Analog Devices Brand

# USB 2.0 Ranger® 2301GE-LAN Specifications

### RANGE

| | |
|---|---|
| Direct Connect: | Up to 100m (330 ft) over solid core CAT 5e/6/7 |
| Network Connect: | Up to 100m (330 ft) 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 (Control, Interrupt, Isochronous and Bulk) |
| Device Types: | All USB 2.0 and 1.1 Device Types and Classes |
| Maximum Number: | Up to 30 devices |

### NETWORKING

| | |
|---|---|
| Standards: | 1000BASE-T* |
| Data Traffic: | Layer 2 |

### LEX (LOCAL EXTENDER)

| | |
|---|---|
| USB Connector: | 1 x USB Type B Receptacle |
| Link Connector: | 1 x RJ45 |
| Dimensions: | 86.0mm x 75.0mm x 26.0mm (3.4" x 3.0" x 1.0") |
| Enclosure Material: | Silver Anodized Aluminum |

### REX (REMOTE EXTENDER)

| | |
|---|---|
| USB Connector: | 1 x USB Type A Receptacle |
| Link Connector: | 1 x RJ45 |
| Dimensions: | 86.0mm x 75.0mm x 26.0mm (3.4" x 3.0" x 1.0") |
| Enclosure Material: | Silver Anodized Aluminum |
| Available Current: | Up to 1 Amp to USB port |
| Power Supply: | 100-240V AC Input, 5V 3A DC Output |

### ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature: | 0°C to 50°C (32°F to 122°F) |
| Storage Temperature: | -20°C to 70°C (-4°F to 158°F) |
| Operating Humidity: | 20% to 80% relative humidity, non-condensing |
| Storage Humidity: | 10% to 90% 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-year |

EXTREME USB®

* Maximum speed is heavily dependant on network configuration, bandwidth and performance. 1000Base-T is highly recommended for best performance.

## Ordering Information

The USB 2.0 Ranger 2301GE-LAN system includes a LEX, REX, USB 2.0 cable, Quick Start Guide, international power adapter with country specific power cord and 2-year warranty.

| PART # | NAME | DESCRIPTION |
|---|---|---|
| 00-00396 | USB 2.0 Ranger 2301GE-LAN - NA | 1-Port USB 2.0 Gigabit Ethernet LAN Extender System, 100-240V Power Adapter, NA Power Cord |
| 00-00397 | USB 2.0 Ranger 2301GE-LAN - EU | 1-Port USB 2.0 Gigabit Ethernet LAN Extender System, 100-240V Power Adapter, EU Power Cord |
| 00-00398 | USB 2.0 Ranger 2301GE-LAN - UK | 1-Port USB 2.0 Gigabit Ethernet LAN Extender System, 100-240V Power Adapter, UK Power Cord |
| 00-00399 | USB 2.0 Ranger 2301GE-LAN - AU | 1-Port USB 2.0 Gigabit Ethernet LAN Extender System, 100-240V Power Adapter, AU Power Cord |
| 00-00400 | USB 2.0 Ranger 2301GE-LAN - JP | 1-Port USB 2.0 Gigabit Ethernet LAN Extender System, 100-240V Power Adapter, JP Power Cord |