

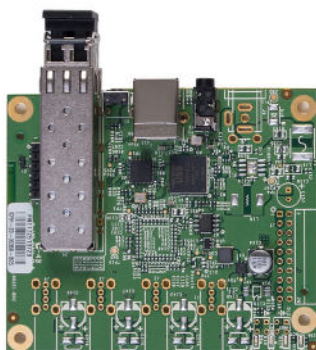
# USB 2.0 RG2324 & RG2344 Extender Turnkey

## 4-port USB 2.0 Fiber Extender PCBA

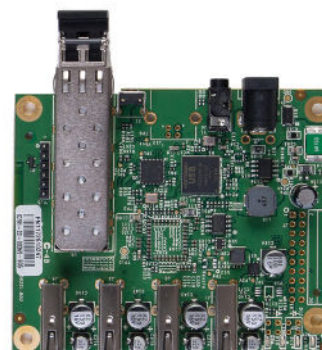
*Sold as Turnkey PCBAs*

The USB 2.0 RG2324 extends high-speed USB 2.0 connections up to 500m using multimode fiber (pictured below), while the USB 2.0 RG2344 extends up to 10km over singlemode fiber optics. They are offered with the ExtremeUSB suite of features from Icron technologies in a ready to go turnkey form-factor; just add an enclosure.

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Local Extender PCBA

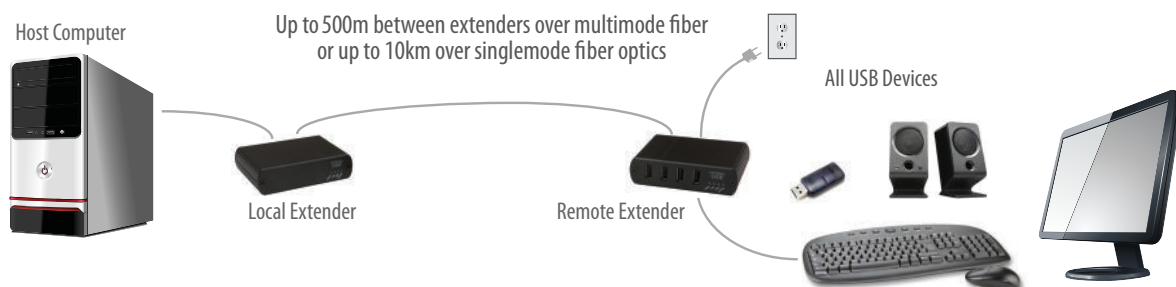


Remote Extender PCBA

FEATURES	RG2324	RG2344
USB 2.0 throughput up to 480 Mbps	✓	✓
Four USB 2.0 ports available; use hubs to add up to 30 devices	✓	✓
Up to 1A of current to each Remote USB 2.0 port; 2.5A total shared between all four ports	✓	✓
Mass Storage Acceleration of USB 2.0 device bulk transfers	✓	✓
Quick install, no software drivers required	✓	✓
Windows®, macOS™ and Linux® compatible	✓	✓
500m of extension over multimode fiber	✓	-
10km of extension over singlemode fiber	-	✓

## Applications

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



Above diagram shows an application with Local and Remote PCBA inside black enclosures.

Specifications subject to  
change without notification.

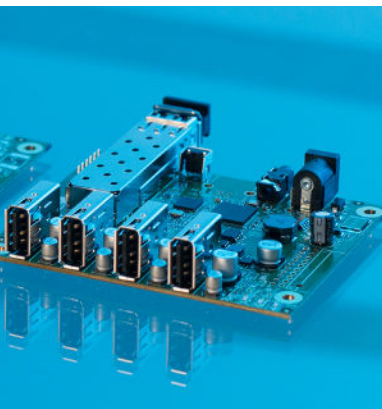
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EXTREME  
USB®

# USB 2.0 RG2324 & RG2344 Turnkey Specifications



RG2344 Remote Extender PCBA



## RANGE

RG2324:	Up to 500m over multimode fiber (OM2+)
RG2344:	Up to 10km over singlemode fiber

## USB DEVICE SUPPORT

Max Throughputs:	USB 2.0: Up to 480 Mbps; USB 1.1: Up to 12 Mbps
Traffic/Device Types:	All USB 2.0 /1.1 traffic and device types
Maximum Number:	Up to 30 devices

## LOCAL EXTENDER

USB Connector:	1 x USB Type B Receptacle
Link Connector:	1 x Duplex LC
PCB Footprint:	85.0mm x 71.5mm (3.4" x 2.8")
Input Power:	USB VBUS

## REMOTE EXTENDER

USB Connectors:	4 x USB Type A Receptacles
Link Connector:	1 x Duplex LC
PCB Footprint:	85.0mm x 71.5mm (3.4" x 2.8")
Available Current:	Up to 1A per USB port, 2.5A total shared
Input Power:	Default: 24V 1A (2.1mm center positive barrel) Optional: 5V 3A (1.7mm center positive barrel)

## ENVIRONMENTAL

Temperature:	Operating: 0°C to 50°C (32°F to 122°F) / Storage: -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

EMC:*	FCC (Class B), CE (Class B)
Environmental:	RoHS2 (CE)

## SUPPORT

Warranty:	2-year
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\* Compliance tested in RG2324/2344 enclosure with Icron Power Adapter.

## Ordering Information

The USB 2.0 RG2324/2344 Turnkey is sold as either a Local Extender PCBA or Remote Extender PCBA and includes a 2-year warranty. A 24V 1A or 5V 3A power supply and regional power cords are available for purchase as accessories. For more information, email [sales@icron.com](mailto:sales@icron.com) or call +1 604 638 3920.

PART #	NAME	DESCRIPTION
02-00119	USB 2.0 RG2324 Turnkey Local Extender	1-Port USB 2.0 500m MMF Local Extender Module (PCBA without housing)
02-00120	USB 2.0 RG2324 Turnkey Remote Extender	4-Port USB 2.0 500m MMF Remote Extender Module (PCBA without housing)
02-00121	USB 2.0 RG2344 Turnkey Local Extender	1-Port USB 2.0 10km SMF Local Extender Module (PCBA without housing)
02-00122	USB 2.0 RG2344 Turnkey Remote Extender	4-Port USB 2.0 10km SMF Remote Extender Module (PCBA without housing)
21-00110	24V 1A Power Adapter	Level VI, Intl., 2.1mm (ID) plug, IEC320-C7/C8 2-pin ► A power cord for your region is also required and may be purchased as an accessory
21-00111	5V 3A Power Adapter	Level VI, Intl., 1.7mm (ID) plug, IEC320-C7/C8 2-pin ► A power cord for your region is also required and may be purchased as an accessory