

# USB 3.0 SP3022 Turnkey Extender

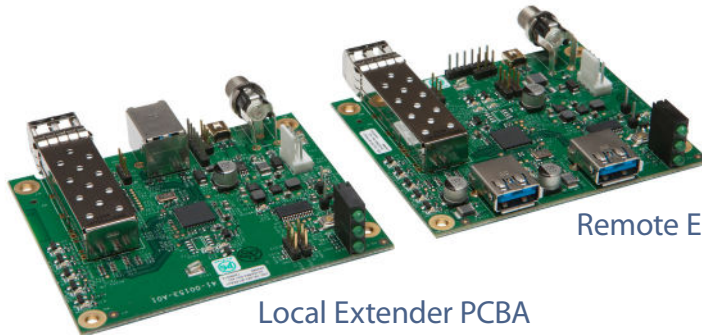
## 2-port USB 3.0 100m Multimode Fiber PCBA Extender

*Sold as Turnkey PCBAs*

The USB 3.0 SP3022 Turnkey extends SuperSpeed USB 3.0 up to 100m (330 ft)\* available in a ready-to-go PCBA turnkey form factor; simply add a customized enclosure.

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Remote Extender PCBA

Local Extender PCBA

## Features

The SP3022 Turnkey streamlines development for commercializing a customized USB 3.0 extension system. Take advantage of USB 3.0's blazing 5 Gbps speeds up to 100m of distance over multimode fiber. Machine Vision cameras, security cameras and storage drives can be extended while providing isolation and security. Key features include:

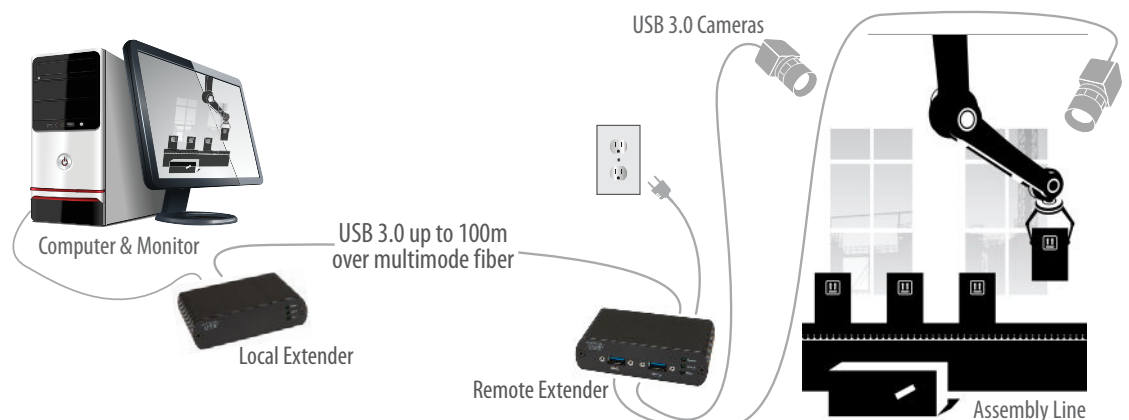
- USB 3.0 extension up to 100m
- Delivers speed, isolation and security over multimode fiber
- Supports USB 3.0 throughputs of up to 5 Gbps
- Integrated 2-port hub suitable for industrial environments
- Rugged locking USB and power connectors
- Works with AIA USB3 Vision™ compliant devices

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
- Security camera extension
- Post-production editing
- Remote storage



Application illustrates PCBAs inside sample enclosures.

Not recommended for extending Microsoft Kinect applications.

\* Up to 50m with USB 3.0 storage type devices and 100m is achievable when using USB 3.0 bulk traffic cameras.

EXTREME  
USB

Specifications subject to  
change without notification.

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# USB 3.0 SP3022 Turnkey Specifications

Multimode Fiber Class	Cameras	Storage
OM2	50m	50m
OM3	100m	50m

\* Up to 50m with USB 3.0 storage type devices and 100m is achievable when using USB 3.0 bulk traffic cameras.



## RANGE\*

OM2 Multimode Fiber:	Up to 50m (165 ft)
OM3 Multimode Fiber:	Up to 100m (330 ft)

## SPEEDS

USB 3.0:	Up to 5 Gbps (Not backward compatible with USB 2.0/1.1)
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## LOCAL EXTENDER

USB Connector:	1 x USB 3.0 Type B Locking Receptacle
Link Connector:	1 x Duplex LC Connector
PCBA Footprint:	85.0mm x 71.5mm (3.35" x 2.80")

## REMOTE EXTENDER

USB Connectors:	2 x USB 3.0 Type A Locking Receptacles
Link Connector:	1 x Duplex LC Connector
PCBA Footprint:	85.0mm x 71.5mm (3.35" x 2.80")
Power Connector:	24V 1A DC, Locking, 2.5 mm, center-positive
Available Current:	900mA for each USB Port

## ENVIRONMENTAL

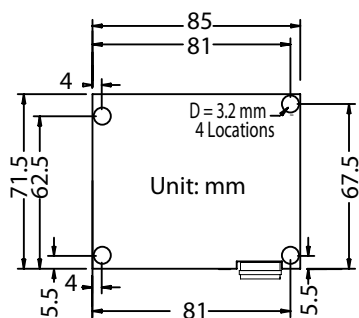
Operating Temperature:	0°C to 40°C (32°F to 104°F)
Storage Temperature:	-20°C to 70°C (-4°F to 158°F)
Operating Humidity:	20% to 80% relative humidity, non-condensing
Storage Humidity:	10% to 90% relative humidity, non-condensing

## COMPLIANCE

EMC:**	FCC (Class B), CE (Class B)
Environmental:	RoHS2 (CE)
Machine Vision:	Works with AIA USB3 Vision™ compliant devices

## SUPPORT

Warranty:	2-year
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Local/Remote Extender Dimensions



\*\* Compliance tested in SP3022 enclosure with power supply

## Ordering Information

The USB 3.0 SP3022 Turnkey is sold as either a local extender PCBA or remote extender PCBA and includes the SFP multimode transceiver module and a 2-year warranty. For more information, email [sales@icron.com](mailto:sales@icron.com) or call +1 604 638 3920.

PART #	NAME	DESCRIPTION
02-00022	USB 3.0 SP3022 Turnkey Local Extender	1-Port 100m Multimode Fiber Local Extender Module (PCBA without housing)
02-00110	USB 3.0 SP3022 24V Turnkey Remote Extender	2-Port 100m 24V Multimode Fiber Remote Extender Module (PCBA without housing)
21-00114	24V, 1A Locking Power Adapter	100-240V, 24V 1A, 2.0mm locking plug, IEC320-C7/C8 2-pin