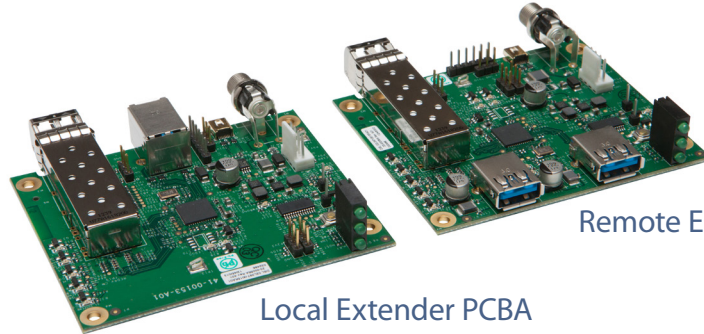


USB 3.0 SP3022 Turnkey Extender

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.



Local Extender PCBA

Remote 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:

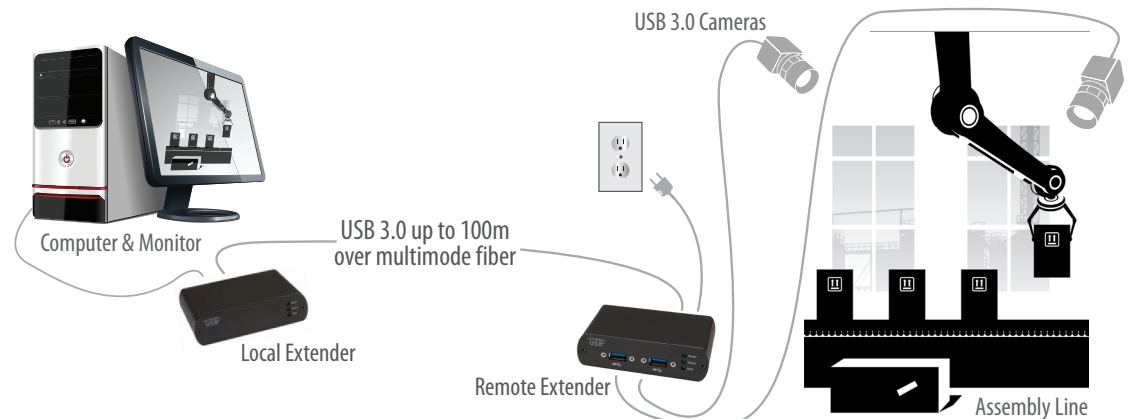
- USB 3.0 extension up to 100m
- Delivers speed, isolation and security over multimode fiber
- Supports USB 3.0 throughputs of up to 5 Gbps
- Integrated 2-port hub suitable for industrial environments
- Rugged locking USB and power connectors
- Works with AIA USB3 Vision™ compliant devices

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.

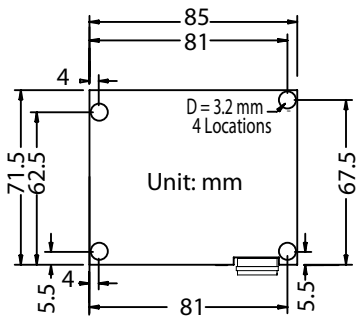
USB 3.0 SP3022 Turnkey Specifications

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.



Locking Power Connector



Local/Remote Extender Dimensions

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)

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



** 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 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