FireNEX™-80G

80Gbps Max. Data Rate for USB 3.2/2.0/1.1
Extension over Fiber Optic Cable up to 700m

Introduction:

The FireNEX™-80G USB extension systems provide an innovative and secured extender solution for professional USB applications across industries including industrial automation, medical imaging, video conferencing, and more.

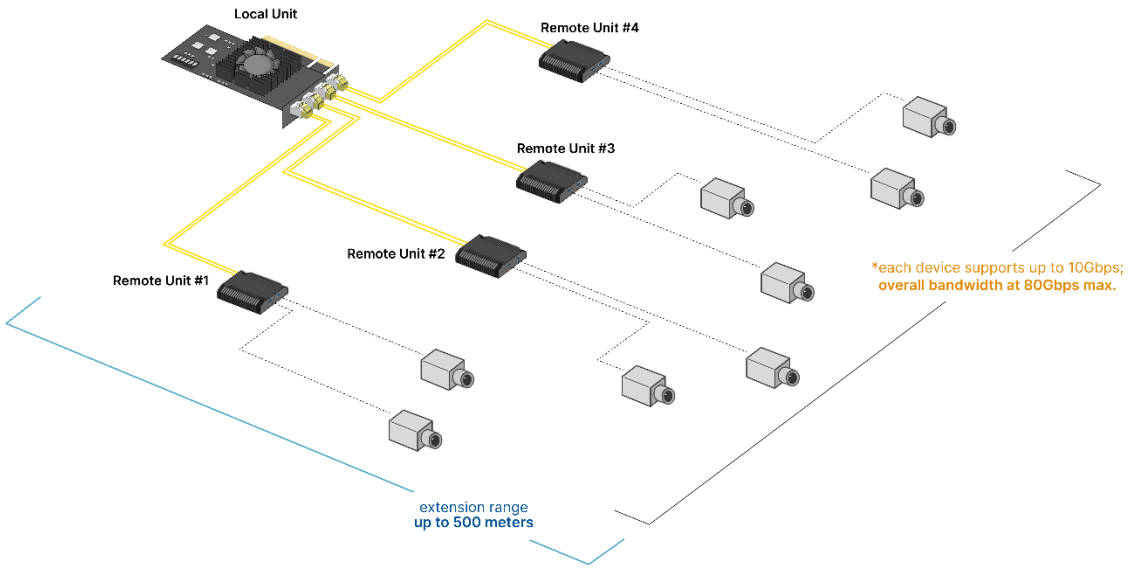
The FireNEX™-80G extension systems come with one Local Unit and pairs with up to four Remote Units, each featuring two USB-A ports that support up to USB 3.2 Gen 2 10Gbps data rate. A fully loaded FireNEX™-80G extension system with four Remote Units collectively offers an 80Gbps bandwidth for up to eight USB 10Gbps devices operates simultaneously.

The four paired Remote Units can be installed separately at an extended range up to 700 meters over single mode fiber optic cables. Transmitting over fiber helps the extension system immune to electromagnetic interference (EMI) and brings high degree of signal integrity on data transferring. In addition, the die-cast metal enclosure of the Remote Unit with mounting bracket plus USB3 vision standard locking ports ensures the industrial-grade reliable connections for many applications.

Features:

- Extend USB 3.2/2.0/1.1 up to 700 meters over single mode fiber cables
- Support USB 3.2 Gen 2 10Gbps and USB 3.2 Gen 1 5Gbps data rate
- USB 2.0/1.1 backward compatible, universal support for lower speed USB devices such as keyboard, mouse, microphone, and control units
- Each Remote Unit comes with 2x USB 10Gbps Type-A ports sharing a total of 20Gbps bandwidth
- One Local Unit supports up to 4 Remote Units, allowing for up to 8 connected USB 10Gbps devices to operate simultaneously, provides a total bandwidth up to 80Gbps
- The Local Unit includes PCI-e standard and low-profile bracket to adapt for both regular and server PC chassis
- Metal enclosure for better protection from EMI and hazards from industrial environment
- Remote Units come with surface mounting holes for secured installation
- USB3 Vision compliant screw locking ports for reliable cable interconnections
- Windows, Linux and Mac OS supported

Application Diagram:



Product Images:



Ordering Information:

PN	In The Box
FireNEX-80G-x1	1x Quick Start Guide 1x Local Unit 1x Remote Unit 1x Standard PCI-e Bracket 1x 5V DC Power Supply 1x Low Profile PCI-e Bracket
FireNEX-80G-x2	1x Quick Start Guide 1x Local Unit 2x Remote Unit 1x Standard PCI-e Bracket 2x 5V DC Power Supply 1x Low Profile PCI-e Bracket
FireNEX-80G-x3	1x Quick Start Guide 1x Local Unit 3x Remote Unit 1x Standard PCI-e Bracket 3x 5V DC Power Supply 1x Low Profile PCI-e Bracket
FireNEX-80G-x4	1x Quick Start Guide 1x Local Unit 4x Remote Unit 1x Standard PCI-e Bracket 4x 5V DC Power Supply 1x Low Profile PCI-e Bracket

Specification	
EXTENSION RANGE	
USB 3.2 10Gbps	Up to 300m
USB 3.2 5Gbps (USB 3.0)	Up to 700m
DATA RATE	
USB 3.2 Gen 2	10 Gb/s
USB 3.2 Gen 1 (USB 3.0)	5 Gb/s
USB 2.0/1.1	Fully Backward Compatible
LOCAL Unit	
Weight	215g
Optical Connector	Up to 4x Duplex LC Connector
Interface	PCI-e Gen3 x 8
Form Factor	Standard Height and Low Profile
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
REMOTE Unit	
Dimensions	85 x 75 x 21.3 mm (3.3 x 3.0 x 0.84”)
Weight	175g
Enclosure Material	Aluminum Alloy
USB Connector	2x USB-A Port Compliant with USB3 Vision Locking
USB Power Out	5V/1.5A of each USB Port
Optical Connector	1x Duplex LC Connector
Power Input	5V DC, 4 A
DC Power Jack	2.1 x 5.5 x 10mm Center positive
Operating Temperature	0 °C to 70 °C (32 °F to 158 °F)
FIBER CABLE	
Connector	LC-LC Duplex
Type	Single mode 9/125 OS2, A/B Wiring
POWER ADAPTER	
AC Power Plug Type	US/EU/UK/CN
Power Input	100-240V AC, 50/60Hz, 0.8A
Power Output	5V DC, 4A
COMPLIANCE	
Machine Vision	USB3 Vision® Compliant
EMC	FCC, CE
Environmental	RoHS
Laser Safety	IEC 60825-1 Class 1/CDRH Class 1 laser eye safe
SUPPORT	
Warranty	1-year Manufacture Warranty