

USB3PRO

USB 3.2 & USB 3.0 EXTENDER OVER CAT.6A/7



EXTEND USB 3.2 AND USB 3.0 SIGNALS UP TO 100 METERS OVER CAT.6A/7 CABLE WITH INTEGRATED RS-232 SUPPORT
IDEAL FOR HIGH-SPEED DATA TRANSMISSION AND REMOTE DEVICE CONTROL

FEATURES

- **USB 3.2 Gen 1 (5Gbps).** Backward compatible with USB 3.0 / 2.0 / 1.1
- **100m Extension Range.** Over Cat.6a/7 F/FTP or U/FTP cable
- **RS-232 Pass-Through.** Ideal for industrial camera or device control
- **High Power Support.** One port supplies up to 1.5A for demanding USB devices
- **Full USB Protocol Support.** Compatible with Control, Bulk, Interrupt, and Isochronous transfers
- **Plug & Play.** No drivers required

APPLICATIONS

- Machine Vision & Industrial Control
- USB Camera Extension
- Conference & Classroom Devices
- Medical & Broadcast KVM
- Secure Desktop Environments



Designed and Manufactured in the USA

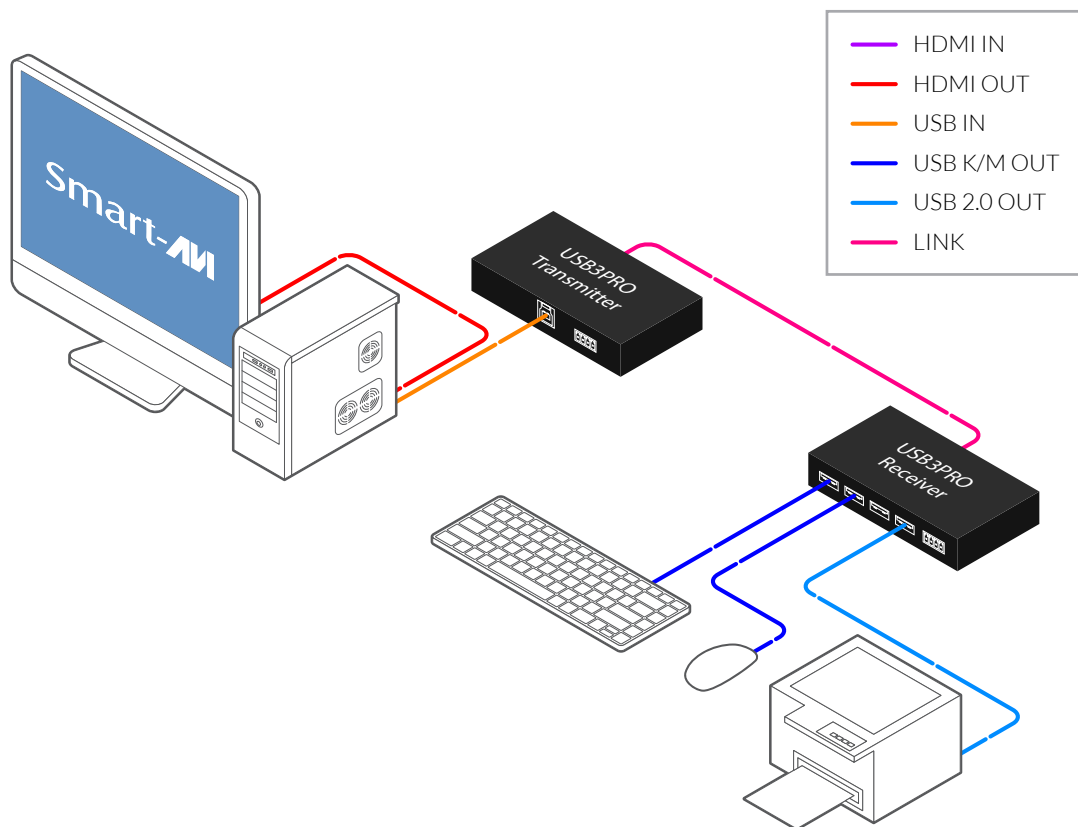
OVERVIEW

The **USB3PRO** is a high-performance USB 3.2 Gen 1 extender system designed to deliver **full-speed USB** over long distances with **zero configuration**. It supports up to **100 meters** of transmission over a single Cat.6a/7 F/FTP or U/FTP cable while preserving the full 5Gbps USB 3.2 data rate. With **RS-232 pass-through**, robust ESD protection, and compatibility with USB 2.0 and 1.1 devices, the USB3PRO is built for both **commercial** and **industrial** environments where reliable, long-distance USB extension is essential.

SOLUTIONS ACROSS INDUSTRIES

- **Machine Vision Systems.** Extend industrial cameras with high-bandwidth USB 3.2 and RS-232 control
- **KVM Extension.** Ideal for medical, broadcast, or cleanroom environments requiring host-PC isolation
- **Conference Rooms & Classrooms.** Enable remote placement of webcams, microphones, touch panels, and USB drives
- **Secure Workspaces.** Maintain physical separation between workstations and connected USB devices
- **Retail & POS.** Connect printers, scanners, and signature pads from a central terminal
- **Industrial Automation.** Integrate sensors, control panels, and embedded USB devices into factory networks
- **Media Production.** Transfer large files from remote USB 3.0 storage devices to central editing systems

APPLICATION DIAGRAM



FRONT & BACK



USB3PRO Transmitter (Front panel)



USB3PRO Receiver (Front panel)



USB3PRO Transmitter (Back panel)



USB3PRO Receiver (Back panel)

TECHNICAL SPECIFICATIONS

USB	
USB Standard	USB 3.2 Gen1 (compatible with USB 3.0, 2.0, and 1.1)
Data Rate	Up to 5 Gbit/s
SYSTEM	
Transmission Distance	Up to 100m via Cat6A/7 F/FTP or U/FTP cable

OTHER	
Power	DC 12V/3A (via desktop power adapter)
Dimensions (W x H x D)	105mm x 100mm x 21mm
ESD Protection	±8kV Air-gap / ±4kV Contact Discharge (Human-body model)
Temperature Range	0°C to 45°C (operating), -20°C to 70°C (storage)
Humidity	10%-90%, non-condensing

PART NO.	DESCRIPTION
USB3PRO-S	USB 3.2 & USB 3.0 Extender over Cat.6A/7. Includes: [USB3PRO & (PS12VDC3A)]

www.smartavi.com

Tel: (888) 994-7427 • (702) 800-0005
2917 E Alexander Rd.
North Las Vegas, NV 89030

Smart-AVI
SMART AUDIO VIDEO INNOVATION