

KVM Dual-Head DisplayPort CATx Extender

High-resolution DisplayPort video extender with USB 2.0.



FEATURES

- » Uncompressed 100m Dual 1080p60fps extension over single CATx with K/M and Audio.
- » Uncompressed 4k30 support (single stream DP only).
- » Enables you to locate your critical computing hardware in a secure environment.
- » Extend the user workstation away from the CPU, while maintaining the user desktop experience.
- » Plug-and-play.
- » Extension distance is up to 150 m for a single 1920 x 1080 screen, depending on cable type.
- » Extension distance is 100 m for two 1920 x 1200 screens, or a single high resolution screen to 4k (3840 x 2160).
- » Supports Mac Cinema Display (2560 x 1440).
- » USB 2.0 Hi-Speed for mass storage devices.
- » Supports keyboard, mouse, tablet, and touchscreens.
- » S/PDIF, and analog audio.
- » Can also support 1920x1080 @ 120Hz when using a single video channel.
- » Uncompressed system.
- » Receiver supports DisplayPort Dual Mode, which allows monitors that only support HDMI or DVI to be used.
- » Enables connection of any USB human interface device from mice and keyboards through to graphics, tablets, and more.
- » Includes intelligent EDID management.
- » Digital audio.
- » HD quality analog audio.

OVERVIEW

The Black Box DisplayPort Extender is a high performance KVM extender that enables you to locate your critical computing hardware in a secure and temperature controlled environment away from the user work station while maintaining the same user desktop experience.

It can transmit either two 1920 x 1200 video streams or one higher resolution video stream (up to 4k30), digital audio (S/PDIF), analog audio, Hi-Speed USB 2.0 and USB 2.0 (full and low speed) over a single CATx cable.

Perfect digital video, real time control

The system is uncompressed, sending every pixel of every frame without loss. The receiver supports DisplayPort Dual Mode (DP++), meaning monitors that only support HDMI or DVI can be used (with the correct adapter cable).

Single CATx cable

Video, USB, and audio all pass along a single cable. A second CATx cable is required for the Hi-Speed USB 2.0 extension and increased video bandwidth.

Up to 150 m extension distances

Distance is dependent on the monitor resolution, number of monitors, cable type, and the number of connection breaks for patch panels and wall plates.

USB 2.0

Enables connection of any USB human interface device from mice and keyboards through to graphics tablets, jog wheels, joysticks and 3D explorers. Mass storage devices and isochronous devices such as webcams and headsets can be used through the transparent USB 2.0 Hi-Speed port.

EDID management

The system has intelligent EDID management to allow the true characteristics of the monitor to be passed back to the computer.

Plug and play

This extender solution is plug-and-play. There is no need for drivers or software to be installed.

Digital audio

Supports the S/PDIF interface via an optical 3.5mm jack socket (dual use with analog audio via mini Toslink).

HD-quality analog audio

HD-audio quality (stereo channel 24 bit sampled at 96kHz) is available to transfer audio from local to remote for Line In / Line. Headsets with integrated microphone use cases are also supported.



KVM Dual-Head DisplayPort CATx Extender
rear
(ACU5800A)

TECH SPECS

Approvals — CE, FCC (Part 15, Class A), RoHS, TUV, UL

Cascadable — No

Connectors —

Transmitter:

- (2) DisplayPort female (Link A/B),
- (2) USB Type B female (Link A/B),
- (2) 3.5mm audio connectors (MIC/Audio),
- (1) RJ-45 options port,
- (2) RJ-45 interconnects,
- (1) 2.5-mm barrel for power;

Receiver:

- (2) DisplayPort female (Link A/B),
- (4) USB type A female (Link 3A/1B),
- (4) 3.5-mm audio connectors (MIC/Audio, front and back),
- (1) RJ-45 options port,
- (2) RJ-45 interconnects,
- (1) 2.5-mm barrel for power

Computer Interface — Display Port video, USB keyboard, mouse and USB 2.0 peripherals, 3.5mm Audio and Mic

DDC Support — Pass-through

Distance —

- From CPU to TX: 1.8-m;
- Between TX and RX: 150-m

Environmental —

- Operating Temperature: 0°C to 40°C;
- Operating Humidity: 80%, non condensing

Hotkey Support — Yes

LED Interface —

- Transmitter: (6) status LEDs;
- Receiver: (6) status LEDs

Operating System — All Windows, MAC, Sun, Linux/Unix (Windows NT is not supported because of USB limitations)

OSD Support — Yes

PC Selection — Point-to-point, no interface, always connected

Power —

- Source: external in-line power supply (PS650);
- Input Voltage: 100-240 VAC, 50/60 Hz;
- Input Current: 0.8 Amps MAX;
- Output Voltage: 5 VDC;
- Output Current: 4 Amps, maximum;
- Consumption: 20 Watts;
- Heat Dissipation: 68.2 BTU/h MAX

Dimensions —

- Transmitter: 4.5H x 20.1W x 11.7D cm;
- Receiver: 4.5H x 20.1W x 11.7D cm

Weight —

- Transmitter: 0.65 kg;
- Receiver: 0.65 kg

What's included

- ◆ (1) Transmitter
- ◆ (1) Receiver
- ◆ (2) 5 VDC, 4 Amp power supplies
- ◆ (2) USB Type A to B cables (1.8-m each)
- ◆ (1) Display-port cable, (2-m)
- ◆ (2) 3.5-mm audio cables (3-m)
- ◆ (1) DB9 female to RJ-45 flash upgrade cable
- ◆ (2) Power cords
- ◆ Safety information sheet with reference to the website for full user manuals
- ◆ (2) sets of four rubber feet

Item

Code

KVM Dual-Head DisplayPort CATx Extender Complete Extender Kit with Transmitter and Receiver	ACU5800A
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You may also need...

19" Rackmount Kit	RMKT2004
19" Rackmounting Kit 1U for Two Units	RMK2004-2
VESA/Wall/Table Mountingkit	ACR1X-VESA
Replacement Power Supply for Dual-Head and Quad-Head Models	PS650