

KVM Solutions

Emerald



Emerald 4K

Emerald® is an award winning KVM matrix switching system that delivers pixel-perfect HD or 4K video over a dedicated or existing IP network. It allows reliable extension and switching of video (DisplayPort or DVI), transparent USB 2.0 and bi-directional analog audio signals across any combination and number of physical and virtual desktops and servers. Easily access both physical and virtual servers with support for VMware® and Microsoft® virtualization solutions, using PCoIP, RemoteFX and RDP 8.1. The Emerald Remote App turns any Windows 10 device into a software KVM receiver - without the need for additional hardware. Emerald delivers superior value, lowering your costs of ownership and saving your IT investments. [More Info...](#)



Future proof and Scalable KVM



Network Resilience



True USB Emulation



Remote Access to Virtual Machines



Pixel-perfect 4K and HD Video



KVM Software Receiver

KVX SERIES



SINGLE-HEAD 4K HDMI

The KVX Series KVM Extender Kits let you control a remote computer from your local workstation while your critical hardware is securely stored in your data centre. KVX can extend KVM signals up to 100 metres over CATx cable or up to 30 kilometres over fibre cable through an SFP connector. KVX is available in DVI (HD), HDMI (4K), and DisplayPort (4K) models that support one or two screens. Unlike other KVM extenders, KVX allows you to connect one or two displays at the remote location if you need to monitor the computer locally. All kits support the extension of USB 2.0, analogue stereo audio (speakers and microphones), and serial signals. KVX Extenders are ideal for office connectivity, media production, server management, remote monitoring, process control, medical and industrial device control, and much more. [More Info...](#)



KV0008A-R2
Freedom II KM Switches
[More Info...](#)

Improved Situational Awareness with Multiple Computer Control

A streamlined workspace with improved desktop ergonomics is essential to improve operator response times. That's why operators in public safety, broadcasting, defense, and transportation, as well as stockbrokers, rely on multi-monitor KM Switches. Hardware-based, they offer reliable operation that provides the ability for a dispatch operator to switch between up to eight machines simply by moving the mouse across the desk monitors. Black Box offers with Freedom II and TC Series two multi-monitor KM switches with Glide-and-Switch Technology for trading workstation and control rooms.

Network Switches



LGB304AE

USB-Powered or AC-Powered Gigabit 4-Port Unmanaged Switch

The USB-Powered Gigabit 4-Port Switch provides (4) 10-/100-/1000 - Mbps ports. This portable switch is great for setting up impromptu networks or expanding the number of available ports. The switch can be powered by USB, so it's ideal for situations where the number of power outlets is limited.

[More Info...](#)



LGB710A

Gigabit Web Smart Switch 10-Port

This 10-Port Gigabit Web Smart Switch has eight 10/100/1000Mbps and two Gigabit SFP open slots. Supports the IEEE 802.3az Energy Efficient Ethernet standard. Configure and manage the switch through your web browser.

[More Info...](#)



LPB3000 Series

Gigabit L2+ Managed POE+ Switches

Model: LPB3010A, LPB3028A and LPB3052A

This layer 2 switch delivers scalability, availability, and power over Ethernet to your LAN access network.

Provides 10/100/1000BASE-T RJ-45 ports plus SFP+ ports. Powers 802.3af or PoE 802.3at PoE+ wireless access, points KVM devices, security cameras, VoIP phones, remote sensors, and etc.

[More Info...](#)



LPB5000 Series

Gigabit L2+ Managed Switches

Model: LGB5028A-R2 and LGB5052A

The LGB5000 Series Gigabit Ethernet (GbE) Managed Switches offer a full suite of L2 Ethernet Switch features and additional 10GbE uplink connections, including advanced L3 features such as Static Route for Enterprise networks via fiber or copper connections. Support for VLAN and QoS, and full SNMP management plus web-based management and console port for configuration.

[More Info...](#)

Video Over IP and HDMI Extender

MEDIACENTO



MediaCentro IPX 4K

Display up to 4K UHD Video over IP to a virtually unlimited number of screens as far as your local network reaches with MediaCentro™ IPX

MediaCentro™ IPX is the perfect HDMI-over-IP distribution solution that enables you to transmit HDMI video over Ethernet to a virtually unlimited number of screens as far as your local network reaches. Add in the MediaCentro™ Controller, and the system becomes an IP-based matrix switch and video wall processor. [More Info...](#)

HDMI Extender - AVX-HDMI2-HDB-R2



HDMI 2.0 Extender over CATx

Send high-quality video & audio signals further, without replacing the copper cable, with this HDMI 2.0 Extender. In compliance with HDR & HDCP 2.2 standards, it supports 4K@60 4:4:4 resolution, Dolby & DTS HD audio, & bi-directional IR control, in a low-profile box. Configure the ARC channel feed for a TV (with ARC support) or an auxiliary S/PDIF input port via an audio output DIP switch on the receiver.

The extender uses proprietary one-way PoC technology to power the receiver from the transmitter. LEDs show power and signal status for established connections between devices. [More Info...](#)

HDMI Extender - VX-HDB2-KIT



HDR CATx Video Extender RX & TX - 4K HDMI 2.0, 60Hz, 4:4:4 Chroma

The HDMI 2.0 4K 60Hz 4:4:4 HDR CATx Video Extender, PoC IR, RS-232 consists of a transmitter and a receiver. It extends an 1080p/4K HDMI signal over CAT5e / CAT6a cable up to 70 meters or 40 meters using PoC. It also enables IR and RS-232 passthrough to control a source or display device remotely. The extender uses visually lossless video compression technology (VLC) to ensure the HD lossless transmission of HDR and 4K @ 60 Hz / 4:4:4 over CAT5e/CAT6a cable.

[More Info...](#)

Active Optical Cables



AOC-HL-H2

HDMI 2.0 Active Optical Cable 4K60 4:4:4
Length: 10 to 100 metres



AOC-HL-DP4

DisplayPort 1.4 Active Optical Cable 8K60
Length: 10 to 100 metres



VCB-HD2L

Premium High-Speed HDMI Cable 2.0, 4K 60Hz UHD
Length: 0.9 to 3 meters

Ethernet Patch Cable



Slim-Net™ CAT6/CAT6A

Gain nearly 50% more space and reduce clutter in crowded cabinets and racks with Slim-Net CAT6/CAT6A 28-AWG patch cables
Color: Black, Blue, Grey, Green, Red, White, Yellow

C6PC28-XX-XX

Slim-Net CAT6 250-MHz Snagless Stranded Ethernet Patch Cable - Unshielded (UTP), CM PVC (RJ45 M/M)
Length: 0.3m to 6.0m

C6APC28-XX-XX

Slim-Net CAT6A 500-MHz Snagless Stranded Ethernet Patch Cable - Unshielded (UTP), CM PVC (RJ45 M/M)
Length: 0.3m to 6.0m



GigaTrue® CAT6A

Premium CAT6A Shielded Patch Cables exceed TIA/EIA 568.2-D CAT6A industry standards
Color: Black, Blue

CAT6APCS-XXX-XX

GigaTrue® CAT6A 500-MHz SlimLine Molded Snagless Stranded Ethernet Patch Cable - Shielded (F/UTP), CM PVC (RJ45 M/M)
Length: 0.3m to 10.6m

C6APC28-XX-XX

GigaTrue® CAT6A 500-MHz SlimLine Molded Snagless Stranded Ethernet Patch Cable - Unshielded (UTP), CM PVC (RJ45 M/M)
Length: 0.3m to 7.6m

KVM Extender

| Max Distance | Media | Video Interface | Monitor Support | Max. Resolution | Local Monitor(s) | Peripherals | Audio Channel | Item |
|----------------|-----------------|-----------------|-----------------|----------------------|------------------|------------------------------------|---------------|------------------------------|
| 100m | CATx | DisplayPort 1.2 | Single | 4K/30Hz 3840x2160 | YES | (4) USB 2.0, RS232 | YES | KVXLCDP-100 |
| 100m | CATx | DisplayPort 1.2 | Dual | 4K/30Hz 3840x2160 | YES | (4) USB 2.0, RS232 | YES | KVXLCDP-200 |
| 100m | CATx | HDMI 1.4 | Single | 4K/60Hz 4096x2160 | NO | (4) USB 2.0 | YES | ACU1700A |
| 50m | CATx | DVI Single Link | Single | 1920x1200 | NO | (4) USB 2.0 | YES | ACU5501A-R4 |
| 50m | CATx | DVI Dual Link | Single | 2560x1600 | NO | (4) USB 2.0 | YES | ACU5520A |
| 50m | CATx | DVI Single Link | Dual | 1920x1200 | NO | (4) USB 2.0 | YES | ACU5502A-R3 |
| IP- Unlimited | CATx / IP / SFP | DisplayPort 1.2 | Single | 4K/60Hz 4096x2160 | NO | (4) USB 2.0 | YES | EMD4000-KIT |
| IP - Unlimited | CATx/IP | DVI Single Link | Single / Dual | 1920x1200 | NO | (4) USB 2.0 | YES | EMD2002SE |
| IP - Unlimited | CATx/SFP | DVI Single Link | Single / Dual | 1920x1080 | NO | (4) USB 2.0 | YES | EMD2000PE-K |
| 10km | Fiber | DVI Single Link | Single | 1920x1200 | NO | (2) USB HID, (2) USB 2.0, RS232 | YES | AMS9201A |
| 30km (SFP) | Fiber | DisplayPort 1.2 | Single | 4K/30Hz 3840x2160 | YES | (4) USB 2.0, RS232 | YES | KVXLCDPF-100 |
| 30km (SFP) | Fiber | DisplayPort 1.2 | Dual | 4K/30Hz 3840x2160 | YES | (4) USB 2.0 | YES | KVXLCDPF-200 |
| 30km (SFP) | Fiber | HDMI 1.3 | Single | 4K/30Hz 3840x2160 | YES | (4) USB 2.0 | YES | KVXLCHF-100 |

HDMI Extender

| Media | Distance up to | Video Support | IR | RS 232 / Control | USB | Ethernet | Power to receiver | Item # |
|-------|------------------|-----------------|----|------------------|-----|----------|-------------------|----------------------------------|
| CATx | 50m | 1080p | | | | | • | AVU8010A |
| | 60m | 1080p, 3D, HDCP | | | | | | VX-HDMI-TP-3D40M |
| | 40m/70m | 4K/1080p | • | • | | | • | VX-HDB-KIT |
| | 40m/70m | 4K/1080p | • | • | | | | VX-HDB-RX |
| | 40m/70m | 4K/1080p | • | • | | | • | VX-HDB-TX |
| | 40m/70m | 4K/1080p | • | • | | | • | AVX-HDMI2-HDB-R2 |
| | 70m | 4K HDCP | • | | | | | VX-HDMI-TP-70M |
| | 100m | 1080p, 3D, HDCP | • | • | | | | VX-HDMI-TP-100M |
| | 100m | 4K HDCP | • | • | • | • | • | VX-1001-RX |
| IP | 100m per segment | 1080p | | | | | • | VX-HDMI-HDIP-RX |
| | 100m per segment | 1080P | | | | | • | VX-HDMI-HDIP-TX |
| | 100m per segment | 4K | | | | | • | VX-HDMI-4KIP-RX |
| | 100m per segment | 4K | | | | | • | VX-HDMI-4KIP-TX |