High-Performance KVM Matrix Switching

Emerald® is an award-winning high-performance KVM extension and matrix switching platform. It supports both point-to-point KVM extension and matrix switching for an unlimited number of users and computers.

The zero-client based system extends and switches pixel-perfect HD (DVI) or 4K/UHD (DisplayPort) video, USB 1.1/2.0, and audio over an IP network. It also provides remote access to both physical computers and virtual machines. Use Emerald with managed IP switches to connect all end points in a KVM matrix switching setup and provide connectivity as far as your network reaches – or even over the internet. You can manage your complete Emerald KVM network with the award-winning Boxilla® KVM Manager. This advanced KVM management solution features a user-friendly web-based GUI that allows you to configure new end points, update firmware, adjust bandwidth consumption, and much more.

Start with Emerald SE at visually lossless HD video quality and add Emerald PE and 4K units to provide pixel-perfect video and redundant network ports. Emerald is a highly scalable solution for applications that require the best video quality and 24/7 uptime, such as control rooms and media production.

With additional options such as the zero rack space consuming Emerald ZeroU Transmitter and the Emerald Remote App Software KVM Receiver, you're always ready for the future — no matter what form it takes.

Benefits and Features

Future-Proof and Scalable System Design
Zero-client-based KVM extension and switching over standard IP network infrastructure provides unlimited system scalability.

Up to UHD 4K Video
Supports lossless compressed, pixel-perfect video up to 3840 x 2160 at 60 Hz UHD (10-bit color ready). Dual-head models are available (SE and PE).

Virtual Machine Support
Simplified and fast access to both physical and virtual servers from a single system. Supports VMware® and Microsoft® VMs using RDP/RemoteFX and PCoIP.

Reliable 24/7 Operation
Designed for critical 24/7/365 applications with redundant network ports (PE and 4K), Boxilla® central KVM manager, central power hub, and more.

Extensive Connectivity Options
Extenders and IP-Switches support a large variety of Black Box and third-party SFP(+) modules as well as Active Optical Cables (AOCs) and Direct Attach Cables (DACs).

Emerald 4K Receiver (EMD4000R)

Part Numbers	
EMD4000T/R	Emerald 4K Transmitter/Receiver
EMD2000PE-T/R	Emerald PE Transmitter/Receiver
EMD2002PE-T/R	Emerald PE Transmitter/Receiver - Dual-Head
EMD2000SE-T/R	Emerald SE Transmitter/Receiver
EMD2002SE-T/R	Emerald SE Transmitter/Receiver - Dual-Head
EMD200DV-T	Emerald ZeroU Transmitter
EMDRMx-LIC	Emerald Remote App Licenses
BXAMGR	Boxilla KVM Manager

Connection Diagram

Sources
Virtualized Servers
User Workplaces
4K Transmitter
4K Receiver
PE Transmitter (Dual-Head)
IP Network
PE Receiver (Dual-Head)
ZeroU Transmitter
Boxilla KVM Manager
Remote App License