

Emerald KVM-over-IP Product Family

High-Performance KVM Matrix Switching

Emerald® is an award-winning high-performance KVM over IP extension and matrix switching platform with exceptional low bandwidth usage and latency, outstanding flexibility and network security. It supports both point-to-point KVM extension and managed matrix switching for an unlimited number of users, computers and virtual machines.

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 provides multiple user with simultaneous remote access to physical computers and virtual machines. Use Emerald with managed IP switches to connect all end points at any location in a KVM matrix switching setup and manage the whole Emerald 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. Add Emerald GE leveraging PCoIP (Ultra) technology for VM sharing to ensure a collaborative, secure, high-definition, and highly responsive computing experience.

Connect users and systems through a wide selection of Emerald transmitters and receivers. Starting with Emerald SE offering visually lossless HD video same as the ZeroU Transmitters designed for dense rack installations. Connect demanding or critical applications through Emerald PE PoE or Emerald 4K providing pixelperfect video and redundant network ports. Finally, the Emerald Remote App is a KVM software application for any Windows 10 device that acts like a receiver providing secure remote access with increased mobility.

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. Emerald is 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.

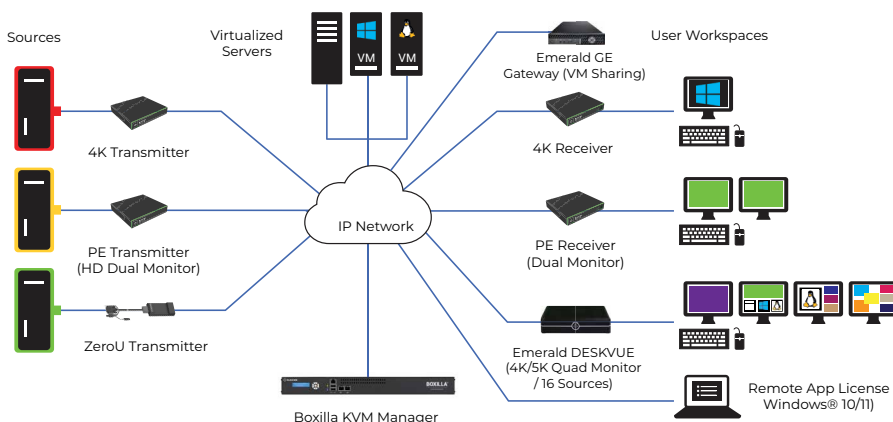
Reliable 24/7 Operation

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).

Connection Diagram



Emerald 4K Receiver (EMD400R)

Part Numbers	
EMD400T/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/DP-T	Emerald ZeroU Transmitter DisplayPort or DVI
EMDRMx-LIC	Emerald Remote App Licenses
BXAMGR	Boxilla KVM Manager