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 low bandwidth usage and latency, outstanding flexibility, and network security. It supports point-to-point KVM extension and managed matrix switching for an unlimited number of users, computers, and virtual machines.

Extend and switch pixel-perfect HD (DVI) or 4K/UHD (DisplayPort) video, USB 1.1/2.0, and audio over an IP network. Emerald provides multiple users with simultaneous remote access to physical computers and virtual machines. Use Emerald with managed IP switches to connect all endpoints at any location in a KVM matrix switching setup and manage the whole Emerald network with the award-winning Boxilla® KVM Manager. Add Emerald GE leveraging PCoIP (Ultra) technology for VM sharing.

Connect users and systems through Emerald transmitters and receivers. Emerald SE offers visually lossless HD video same as the ZeroU Transmitters designed for dense rack installations. Emerald PE PoE or Emerald 4K provides pixel-perfect video and redundant network ports. The Emerald Remote App is a KVM software application for any Windows 10 device that acts like a receiver. The DESKVUE receiver allows users to create a personalized workspace in which they can simultaneously monitor and interact with up to 16 systems — physical, virtual, and cloud-based.

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

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/DP-T: Emerald ZeroU Transmitter DisplayPort or DVI
- EMDS004-R: Emerald DESKVUE Receiver 4K/Quad Monitor
- EMDRMx-LIC: Emerald Remote App Licenses
- BXAMGR: Boxilla KVM Manager

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