Emerald KVM-over-IP Product Family Overview

Discover the Future of KVM Matrix Switching with Emerald

Emerald®, the award-winning KVM over IP platform, offers low-bandwidth, high-flexibility matrix switching for unlimited users and source computers. Its advanced capabilities allow for HD to 4K video quality, USB, and audio over IP, providing remote access to both physical and virtual machines.
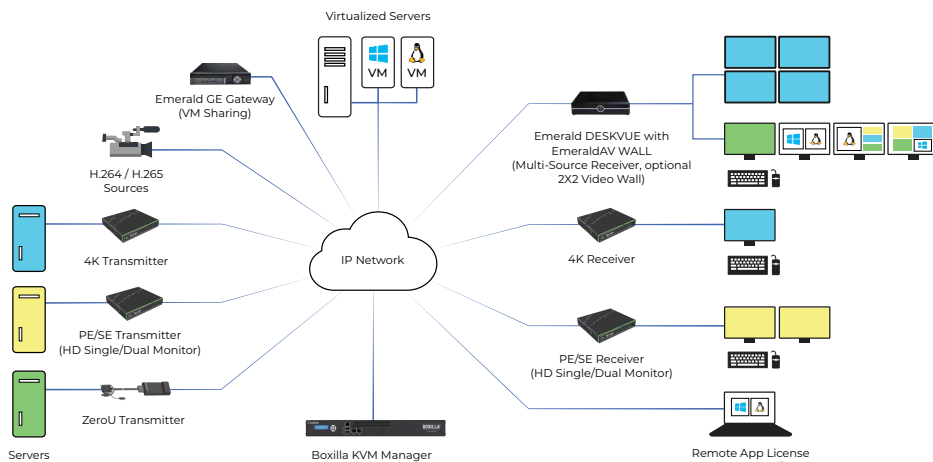
Easily managed through the Boxilla® KVM Manager, Emerald integrates seamlessly into your network. It features a range of solutions, including the space-efficient ZeroU transmitter and the high-performance Emerald SE, PE, and 4K options, ensuring optimal video clarity and network reliability.

With the Emerald Remote App, transform any Windows® 10/11 device into a powerful KVM station, capable of managing up to 16 systems simultaneously. Emerald is your gateway to advanced connectivity and streamlined control.

Click on the below video preview image to get a full **demo of the Emerald System** ▸

blackbox.com/emerald

Connection Diagram

Virtualized Servers

Emerald GE Gateway
(VM Sharing)

H.264 / H.265
Sources

4K Transmitter

PE/SE Transmitter
(HD Single/Dual Monitor)

ZeroU Transmitter

Servers

Boxilla KVM Manager

IP Network

Emerald DESKVUE with
EmeraldAV WALL
(Multi-Source Receiver, optional
2X2 Video Wall)

4K Receiver

PE/SE Receiver
(HD Single/Dual Monitor)

Remote App License
(Windows 10/11)

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/PCoIP Ultra.

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 DESKVUE
Enables operators to arrange their individual workspace for optimal simultaneous interaction with up to 16 different systems.

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