Introducing Emerald PE

Emerald® PE Transmitters and Receivers are IP-based, high-performance KVM extender units that enable the extension and matrix switching of single- or dual-head HD (1920 x 1200 at 60 Hz) DVI video, transparent USB 2.0 and bidirectional analogue audio between any number of users and computers, servers or virtual machines. The Black Box® team in Ireland developed this new addition to the award-winning Emerald product family.

Use Emerald PE to create a point-to-point extension that connects a user with a safely stored remote computer. Or connect multiple PE transmitters and receivers to a Black Box or third-party IP switch to create a managed KVM matrix switching system. Emerald PE features redundant network ports that provide fast failover switching in case one connection goes down. In addition, Emerald PE Receivers are available as Power over Ethernet (PoE) models, that can be powered over CATx cable via a compatible PoE network switch. All Emerald PE transmitter models natively support the PoE feature.

With pixel-perfect video transmission, zero keyboard and mouse latency and built-in network redundancy, these extenders are a perfect fit for applications such as graphics, video, audio and 3D editing; broadcast playout and MCRs; and process or traffic monitoring in control rooms.

Benefits and Features

Extend Video, Transparent USB 2.0 and Audio
Extend KVM signals up to 100 metres over CATx, up to 10 kilometers over fibre (SFP) or even farther over an IP network or the internet.

Pixel-Perfect HD Video for One or Two Monitors
Delivers every pixel of every video frame with lossless compression and supports resolutions up to 1920 x 1200 at 60 Hz (DVI). A dual-head version is available for multimonitor workstations.

Power over Ethernet (PoE) Models Available
Available as PoE receiver models that eliminate the need for additional power supplies in the server room or at the user desk.

Point-to-Point Extension or Matrix Switching
Use as point-to-point KVM extenders or add multiple devices to a matrix switching setup by connecting an IP switch.

Part of the Emerald Unified KVM Family
Fully compatible with Emerald SE, Emerald ZeroU and the Emerald Remote App.

KVM Management Made Easy
For matrix switching setups that exceed 20 end points, use the Boxilla® KVM Manager to conveniently and securely configure your system.

Emerald PE Transmitter

Emerald PE Receiver

Emerald PE Application Diagram

Sources

Emerald PE single-head transmitter

Direct connection over CATx or fibre

Emerald PE single-head receiver

Workstations

Emerald PE dual-head transmitter

Emerald PE dual-head receiver

Emerald ZeroU transmitter

IP network

Emerald SE receiver

Boxilla® KVM manager