



## 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.

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.

**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

