

DisplayPort 1.4 EDID Emulator

EDID Emulator

Stores and reproduces EDID information for a DisplayPort display.

- Emulates a DisplayPort display (sink device) by providing Hot Plug Detect and EDID to the DisplayPort source device.
- Supports Ultra-HD 8K resolutions to 7680x4320 @30Hz, 4:4:4, Ultra-HD 4Kx2K resolutions to 3840x2160 @60Hz 4:4:4, 3440x1440 (UWQHD), 2560x1600 (WQXGA), 2560x1440 (WQHD), and HDTV resolutions to 1080p.
- DisplayPort features supported:
 - DisplayPort 1.4
 - Multi-Stream Transport (MST)
 - Up to 36-bit Deep Color
 - LPCM
 - YCbCr 4:4:4, YCbCr 4:2:2, and RGB
 - Bandwidth up to 32.4 Gbps
- HDCP 2.2 compliant.
- Supports Learning and Emulation modes.
 - Learning mode: store a display's EDID for later use.
 - Emulation mode: provides EDID to the DisplayPort source device from the emulator's internal memory.
 - ♦ **Supports headless operation – no monitor attached to source.**
 - Ideal for remote desktop access to a headless computer, virtual desktop on VR headsets, and for use with GPGPU tasks such as cryptocurrency mining.
- Pre-programmed with many standard resolutions with native set to 1080p.
 - Use learning mode to program other resolutions.
- LED indicator provides signal status information.
- Compact design for easy installation and operation.
- No power supply – powered by video source.
- Use for resolving signal handshaking problems between a source and a display.



DP8K-EDID-EMLTR (Front & Back)

- **Headless operation**
- **Video pass-through**
- **Resolutions to Ultra-HD 8K 4320p 30Hz**
- **DisplayPort 1.4**

The DisplayPort 1.4 EDID Emulator stores and reproduces EDID information for a DisplayPort display, and resolves video communication problems that occur between a DisplayPort video source and display. It is designed for systems that require EDID signals to be continuously provided without interruption, and ensures that the EDID signal is not lost when using AV/KVM extenders and splitters. Additionally, the emulator can be used in place of a monitor to keep the graphics card of a PC or server awake for remote access over IP.

Specifications

Connectors

- One female DisplayPort port for display connection.
 - Supports Ultra-HD 8K resolutions to 7680x4320 @30Hz, 4:4:4, Ultra-HD 4Kx2K resolutions to 3840x2160 @60Hz 4:4:4, 3440x1440 (UWQHD), 2560x1600 (WQXGA), 2560x1440 (WQHD), and HDTV resolutions to 1080p.
 - ♦ Default resolution: 1080p.
- One male DisplayPort port for source connection.

Power

- Powered by video source.

Dimensions

- WxDxH (in): 0.99x2.50x0.47 (25x64x12 mm)

Environmental

- Operating temperature: 32 to 122°F (0 to 50°C)
- Storage temperature: -4 to 158°F (-20 to 70°C)
- Operating and storage relative humidity: 5 to 85% non-condensing RH.

Regulatory Approvals

- CE, FCC, RoHS
- TAA compliant.

Warranty

- Two years

Not recommended for use in conjunction with KVM or video-only switches.

Reason: When the input channel is deselected, the emulator will be powered off. The host computer connected to that input channel via DP emulator will recognize the emulated monitor as disconnected.

NTI's DisplayPort Hotplug Maintainer emulates a DisplayPort display (sink device) by providing Hot Plug Detect (HPD) signal to the DisplayPort source device. When used with a KVM/video switch, the DP-HP-MNTR-SRC eliminates the need to reconfigure monitor settings when switching between computers.