Draco vario ultra

DisplayPort 1.2 KVM Extender

PRODUCT INFORMATION

The Draco vario ultra DP extender enables the operation of CPUs from a remotely located workstation including DisplayPort monitor, keyboard and pointing device over a single fiber connection. Transfer of fully-digital video is supported in 4K resolutions up to 4096 x 2160 and 3840 x 2160 at a real 60-Hz refresh rate and full color depth (30 bit, 4:4:4). The KVM extender also supports audio transmission via the DisplayPort interface. Integration of optional Draco vario upgrade modules for digital audio input and output as well as data signals, such as USB 2.0 and RS232 is also possible.

PRODUCT FEATURES

- Operation of CPUs from a remote workstation with a DisplayPort monitor and USB HID devices
- Transmission of fully-digital video signals up to 4K DCI (4096 x 2160) and UHD (3840 x 2160)
- New lossless video codec (visually), no frame drops, full color depth, 30 bit (Deep Color) 4:4:4
- PCM audio format can be transferred via the DisplayPort interface (up to 96 kHz)
- Transmission of monitor EDID information by hotkey; including permanent storage in the CPU Unit
- Embedded mode for lower video resolutions allows instant switching via Draco tera
- Optional: Redundant data link for 24/7 availability
- Local DP1.2 feedthrough and Remote DP1.2 switch
- Compatible* with all:
  - major operating systems
  - chassis of the Draco vario series
  - IHSE Draco KVM matrix switches with XV interfaces
  - other main modules of Draco vario ultra extenders (49x series)
  - Draco vario upgrade modules for audio and data signals such as USB 2.0, balanced audio or RS232

Next generation KVM extenders with integrated Fraunhofer IIS’s lightweight coding technology

Lici® (Lightweight Image Coding technology)

- Mezzanine compression up to mathematically lossless
- Low latency
- No frame drops
- RGB/YCbCr or raw data compression
- 2K/4K/8K possible or higher frame rates

* Video transmission of the Draco vario ultra series 490, 492 and 493 series is not compatible with the main modules of the Draco vario series 474, 481, 482, 483 and Draco compact 417 series.
TECHNICAL DATA

**Input**  
DisplayPort 1.2

**Output**  
DisplayPort 1.2

**Maximum Resolution**  
- 1920 x 1080 @ 240 Hz  
- 1920 x 1200 @ 60 Hz  
- 2048 x 2048 @ 60 Hz  
- 2560 x 2048 @ 60 Hz  
- 3840 x 2160 @ 60 Hz (30 bit) - UHD  
- 4096 x 2160 @ 60 Hz (30 bit) - 4K DCI

**Audio**  
- **Standards**: Stereo Linear Pulse Code Modulation (LPCM)  
- **Bit Depth**: 16 - 24 bit  
- **Sample Rate**: 32 - 192 kHz

**Maximum Cable Distance**  
- Single-mode XV (9 µ) up to 5 km  
- Cat X XV up to 100m

**Optional Interfaces**  
USB 2.0 (high speed or full speed), analog audio with RS232 or RS422, digital audio, PS/2, USB embedded, balanced audio

**Keyboard/Mouse**  
USB-HID

**Part numbers**

**CPU Unit (local)**
- Fiber XV  
  - L490-BPHX  
  - L490-BPHXR
- Fiber XV (local out)  
  - L490-BPHXL  
  - L490-BPHXLR
- Cat X (local out)  
  - L490-BPHCXL  
  - L490-BPHCXLR

**CON Unit (remote)**
- Fiber XV  
  - R490-BPHX  
  - R490-BPHXR
- Fiber XV (local out)  
  - R490-BPHXL  
  - R490-BPHXLR
- Cat X (local out)  
  - R490-BPHCXL  
  - R490-BPHCXLR

FUNCTIONAL DIAGRAM