



Resolutions up to 4096 x 2160 @ 60 Hz

30 bit (Deep Color), 4:4:4

Lossless transmission and no frame drops

Transmission via Fiber or Cat X

Single sided connectivity

Optional Link and Power Redundancy

Local DP1.2 feedthrough

Integral remote DP1.2 switch

## 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

Gefördert durch:



aufgrund eines Beschlusses des Deutschen Bundestages

\* 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 477 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 $\mu$ ) 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	<b>CPU Unit (local)</b>	<b>CON Unit (remote)</b>
	<b>Fiber XV</b> L490-BPHX L490-BPHXR	<b>Fiber XV</b> R490-BPHX R490-BPHXR
	<b>Fiber XV (local out)</b> L490-BPHXL L490-BPHXLR	<b>Fiber XV (local out)</b> R490-BPHXL R490-BPHXLR
	<b>Cat X (local out)</b> L490-BPHCXL L490-BPHCXLR	<b>Cat X (local out)</b> R490-BPHCXL R490-BPHCXLR

## FUNCTIONAL DIAGRAM

