



Resolutions up to 4096 x 2160 @ 30 Hz

24 bit (True Color), 4:4:4

Lossless transmission

No frame drops

Data transmission via single fiber

Combined video and audio transmission

Single sided connectivity

Redundant power supply

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 30-Hz refresh rate and full color depth (24 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, 24 bit (True 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
- Compatible* with all:
 - major operating systems
 - chassis of the Draco vario series
 - IHSE Draco KVM matrix switches
 - 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.

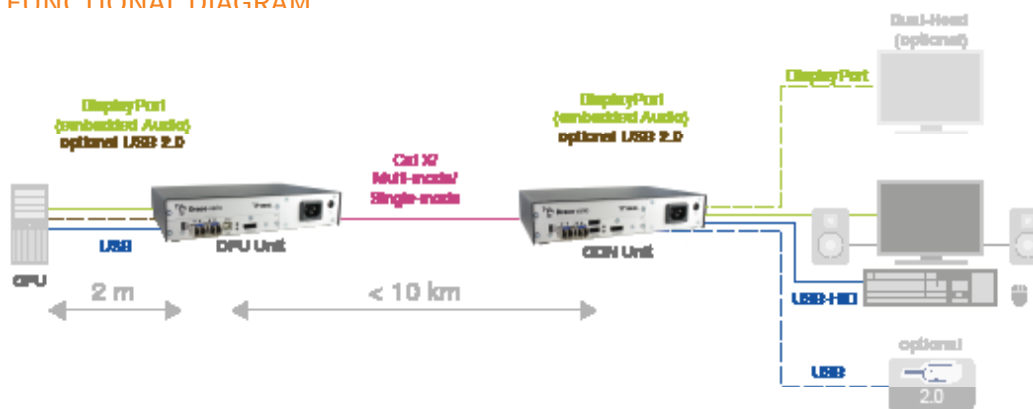
TECHNICAL DATA	
Input	DisplayPort 1.1
Output	DisplayPort 1.1
Maximum resolution	1920 x 1080 @ 144 Hz 1920 x 1200 @ 60 Hz 2560 x 2048 @ 60 Hz 2048 x 2048 @ 60 Hz 3840 x 2160 @ 30 Hz (24 bit) - UHD 4096 x 2160 @ 30 Hz (24 bit) - 4K DCI
Maximum transmission range for video and USB-HID signals (end-to-end connection)	Cat X: 140 m (459 ft) Single-Mode 9µm: 10,000 m (32,808 ft) Single-Mode 9µm XV: 5,000 m (16,404 ft) Multi-Mode 50µm (OM3): 1,000 m (3,280 ft) Multi-Mode 50µm: 400 m (1,312 ft)
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

NOTICE:

Transmission ranges for transparent USB when using add-on modules

When using L474/R474 add-on modules with transparent USB, the binding specifications stated in the data sheets of the add-on modules apply.

FUNCTIONAL DIAGRAM



ORDER NUMBERS

	L493-BPHC		R493-BPHC
	L493-BPHS L493-BPHX		R493-BPHS R493-BPHX
	L493-BPHCR		R493-BPHCR
	L493-BPHSR L493-BPHXR		R493-BPHSR R493-BPHXR

ULTRA HD / 4K DCI

