

DISPLAYPORT 1.2 KVM EXTENDER



Resolution up to 5120 x 2160 @ 50 Hz

10 bit per color, 4:4:4

Lossless transmission, no frame drops

Transmission via Fiber or CAT X

Single sided connectivity

Optional Link and Power Redundancy

Local DP1.2 feedthrough (optional)

Integral remote DP1.2 switch (optional)

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 5K resolutions up to 5120

x 1080/1440 @ 60 Hz and 5120 x 2160 at a real 50-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. The Draco vario ultra DP is compatible with all Draco tera KVM matrix switches.

PRODUCT FEATURES

- Operation of CPUs from a remote workstation with a DisplayPort monitor and USB-HID devices (keyboard/mouse)
- Transmission of fully-digital video signals up to 5K
- New lossless video codec (visually), no frame drops, full color depth, 30 bit (4:4:4, Deep Color)
- PCM audio format can be transferred via the DisplayPort interface (up to 96 kHz)
- Transmission of monitor EDID information by hot key; including permanent storage via Draco tera
- Embedded mode for lower video resolutions allows instant switching via Draco tera
- Optional: Redundant data link for 24/7 availability
- Local DP 1.2 feedthrough and remote DP 1.2 switch (optional)
- 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 (49s series)
 - Draco vario upgrade modules for audio and data signals such as USB 2.0, balanced audio or RS232

Next generation KVM extenderd 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



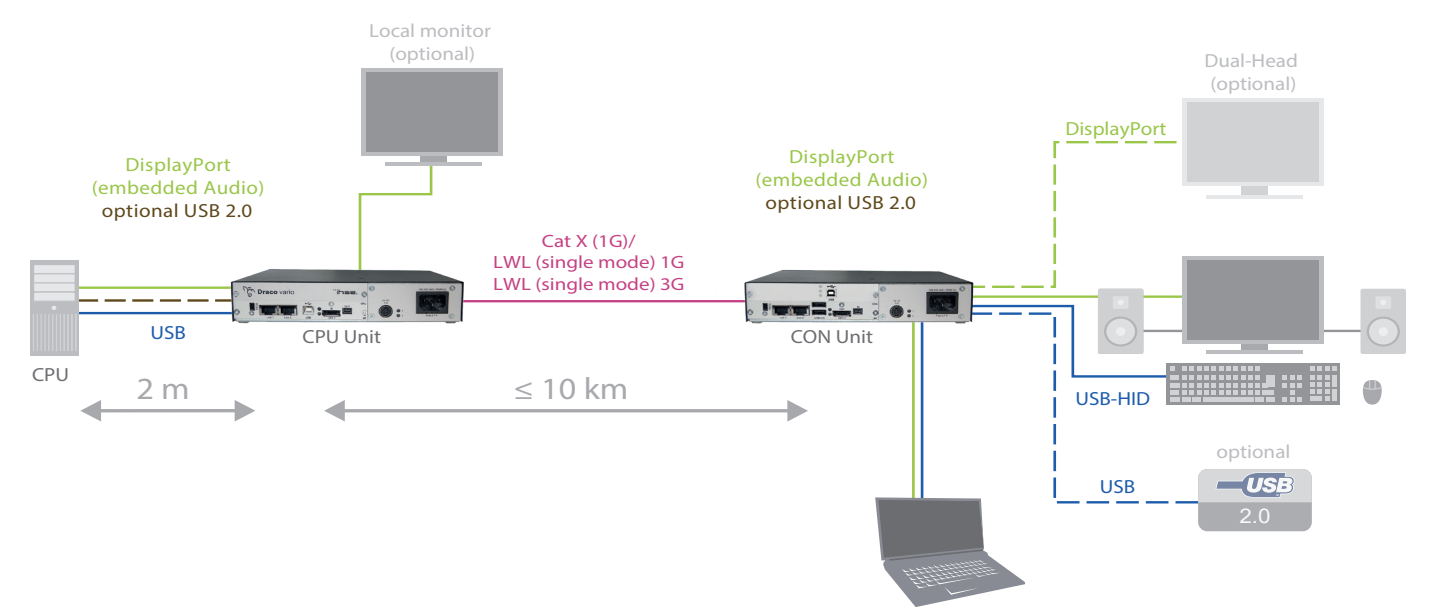
* Video transmission of the Draco vario ultra series 490, 492 und 493 series is not compatible with the main modules of the Draco vario series 474, 481, 483 and Draco compact 477 series.

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	
	5120 x 1080 @ 60 Hz	
	5120 x 1440 @ 60 Hz	
Audio	Standards	Stereo Linear Pulse Code Modulation (LPCM)
	Bittiefe	16 - 24 bit
	Sample Rate	32 bis 192 kHz
Maximum transmission range for video and USB-HID signals (end-to-end connection)	Cat X: 100 m (459 ft) Single-Mode 9 µm 3G: 10.000 m (16,404 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	

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



ARTIKELNUMMERN

CPU	red.	lokal	CAT X 3G	LWL 3G	CON	red.	lokal	CAT X 3G	LWL 3G
L490-BPHCXL-R1		X	X		R490-BPHCX-R1		X	X	
L490-BPHCXLR	X	X	X		R490-BPHCXLR	X	X	X	
L490-BPHX				X	R490-BPHX				X
L490-BPHXL		X		X	R490-BPHXL		X		X
L490-BPHXLR	X	X		X	R490-BPHXLR	X	X		X
L490-BPHXR	X			X	R490-BPHXR	X			X