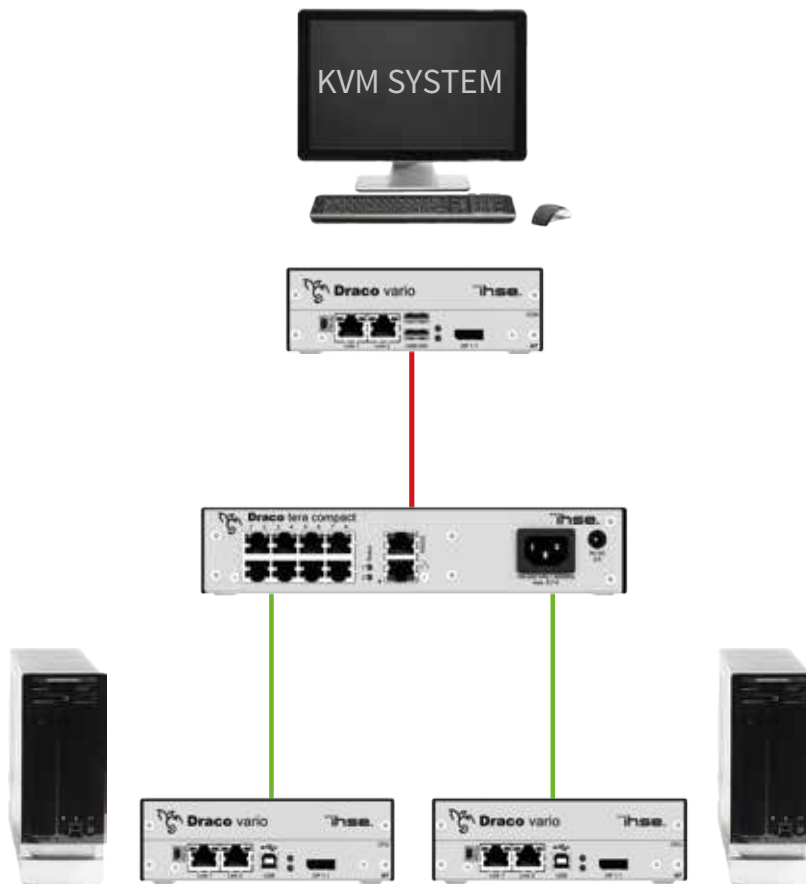Draco vario extenders let you place a keyboard, monitor, mouse, speakers and USB 2.0 devices long distances from your computer(s) or IHSE KVM matrix.

- Multiple product variants
- Four chassis sizes
- Redundant power supply
- Free customization
- Integrated switch and extender

Product Information

IHSE offers a wide range of pre-configured models for the vario line of extenders.

Start with the basic 2-bay enclosure, select a part number corresponding to the video format requirement (DVI, HDMI, DisplayPort, DVI-I/VGA), with or without options. Each unit includes USB-HID for keyboard and mouse operations.

Options include analog audio, digital audio, RS232, RS422 and USB 2.0. All units are available in either twisted pair (Cat X) or fiber optic interconnects. Units include an external or internal power supply.

The Draco vario extender family is designed around a modular concept that lets you build an extender system to fit your specific needs. Enclosure frames are available in 2 bay, 4 bay, 6 bay and 21 bay units. Frame options include redundant power and rack mount kits. All Draco vario (474, 481, 482, 483, 486, 488) and Draco vario ultra (490, 491, 492, 493, 494, 495) models can be fitted to these frame styles. Main board options include DVI-D, DVI-I (VGA), HDMI, DisplayPort as well as Dual-Head or Dual Link DVI. Add-on modules include a wide range of features and flexibility to

support practically any combination of video and data transports.

Select add-on modules to support USB 2.0, digital audio, analog audio, RS232 or RS422. IHSE offers the Design Your Own Device (DYOD) configuration software to make it easy to build the system you need. All main modules support USB-HID for keyboard and mouse operations and are available in either Cat X or fiber option interconnects. Simple keyboard commands (hot keys) for transmission of remotely connected monitors' EDID information.
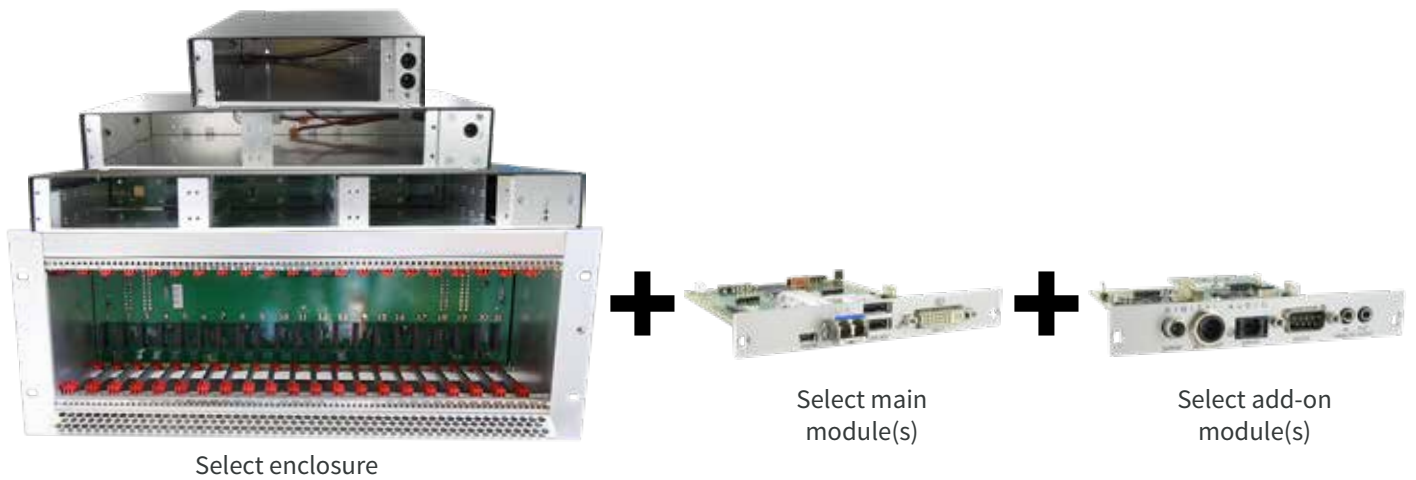
Why does it make sense to remotely locate a CPU?

- Protection against dust, moisture and vibrations
- Prevention of theft and unauthorized CPU access
- Simplified maintenance, configuration and administration of multiple user computers at a central point
- Centralized installation of software updates (particularly simple in combination with a KVM switch)
- Air conditioning of CPUs increases life cycles and ensures constant performance
- Pleasant working environment by enhancing space and reducing noise and heat pollution caused by powerful computers
- Reduction of energy consumption

Modular Units

Custom built assemblies

Select enclosure   +   Select main module(s)   +   Select add-on module(s)

Base Units

Standard part numbers

■	Resolutions up to 2560 x 2048 and 4K@30Hz
■	Compatible with all Draco devices
■	Combined video and audio transmission
■	Data transmission via Cat X, fiber or fiber XV
■	Redundant power supply

Product Information

The Draco vario DisplayPort enables the transmission of high definition video and audio data over the cutting-edge DisplayPort interface. They are compatible with Draco tera KVM matrix switches and cross-compatible with the DVI and HDMI extender series for video and USB-HID extension. Transmission of fully-digital video signals (including 3D video in full-HD) is supported in 4K resolutions up to 4096 x 2160 and 3840 x 2160. The DisplayPort extender supports all common digital audio standards. This eliminates the need for additional audio modules, enabling playback of the audio signal through monitors with integrated loudspeakers. Integration of optional add-on modules for digital audio input and output is also possible. The DisplayPort extenders are available in single and redundant interconnection variants.
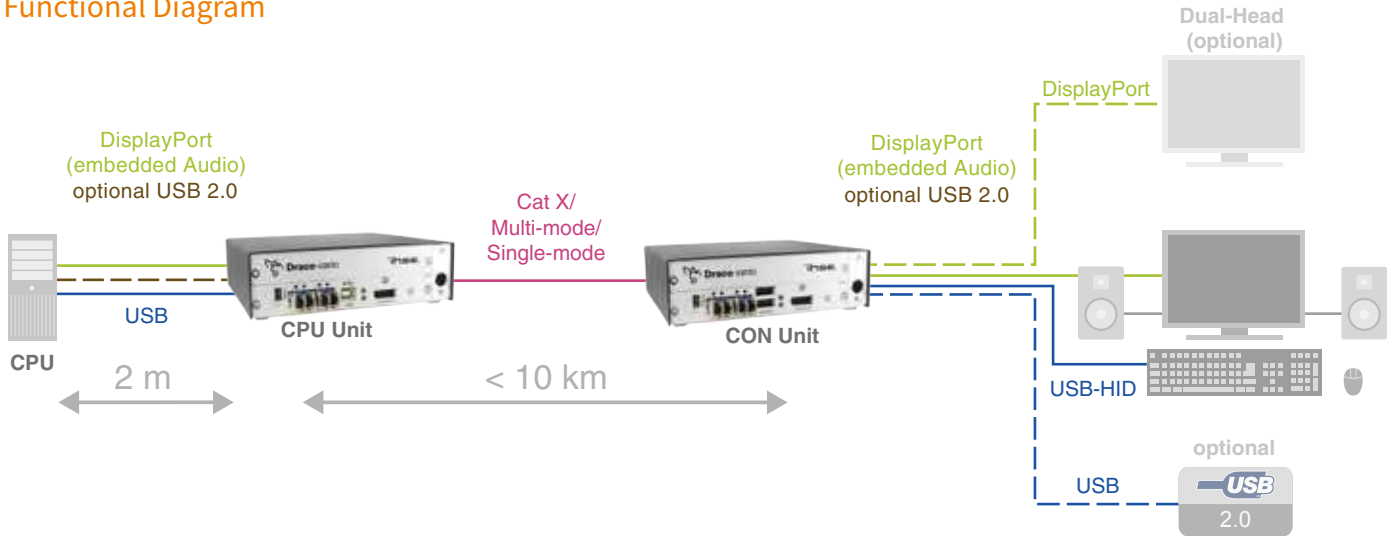
Product Features

- Compatible with all chassis and modules of the Draco vario extenders
- Transmission of fully-digital video signals up to 4K30 (4096 x 2160)
- The audio format PCM can be transferred with a sample rate up to 96 kHz via the DisplayPort interface
- Other audio formats are available via a firmware update
- The standard version allows operation of a remote workstation with a DisplayPort monitor and USB-HID devices (such as a keyboard and mouse)
- Compatible with all major operating systems
- Compatible with all IHSE Draco KVM switches as well as Draco vario models and chassis, and Draco compact extenders
- Redundant data link (optional)
- 1U (19") rack kits (optional)

TECHNICAL DATA	
Input	DisplayPort 1.1
Output	DisplayPort 1.1
Maximum Resolution	2560 x 2048 @ 60 Hz 4096 x 2160 @ 30 Hz
Color Depth	8 bit / True Color
Maximum Cable Distance	Cat X 140 m Single-mode XV (9 µ) 5 km Single-mode (9 µ) 10 km
Optional Interfaces	USB 2.0, analog audio with RS232, digital audio, PS/2, etc.
Keyboard/Mouse	USB-HID

- Modules also available as Mix & Match fiber versions (single-mode) and high speed XV fiber versions
- Upgrades available for USB 2.0, RS232, RS422, analog audio, digital audio, PS/2

Functional Diagram

Dual-Head (optional)

DisplayPort

DisplayPort (embedded Audio) optional USB 2.0

DisplayPort (embedded Audio) optional USB 2.0

Cat X/ Multi-mode/ Single-mode

USB

CPU Unit

CON Unit

CPU

USB-HID

2 m

< 10 km

optional

USB

USB 2.0

Order Numbers

FUNCTIONS	CPU UNIT (LOCAL)	PART NO.	CON UNIT (REMOTE)	PART NO.
DisplayPort 1.1 / 4K 30Hz ULTRAHD / USB HID		L483-BPHC L483-BPHS L483-BPHX		R483-BPHC R483-BPHS R483-BPHX
DisplayPort 1.1 / 4K 30Hz ULTRAHD / USB HID / Redundant		L483-BPHCR L483-BPHSR L483-BPHXR		R483-BPHCR R483-BPHSR R483-BPHXR

Functional Diagram

CPU Unit

CON Unit

Dual Link

L483-BPHC

R483-BPHC

CPU

2K/4K

Matrix

L483-BPHCR

R483-BPHCR

Dual Link

CPU

2K/4K