



Energy and space saving for high packing density

Variable chassis selection due to modular design

Optionally expandable with audio and data interfaces

Transmission of two video signals via one cable

Ergonomic working due to noiseless operation

## PRODUCT INFORMATION

The Draco vario DisplayPort 1.1 KVM extender allows the visually lossless extension of high-resolution video and audio signals via the DisplayPort interface. Fully digital video signals can be transmitted in Single-Head operation in 4K resolutions

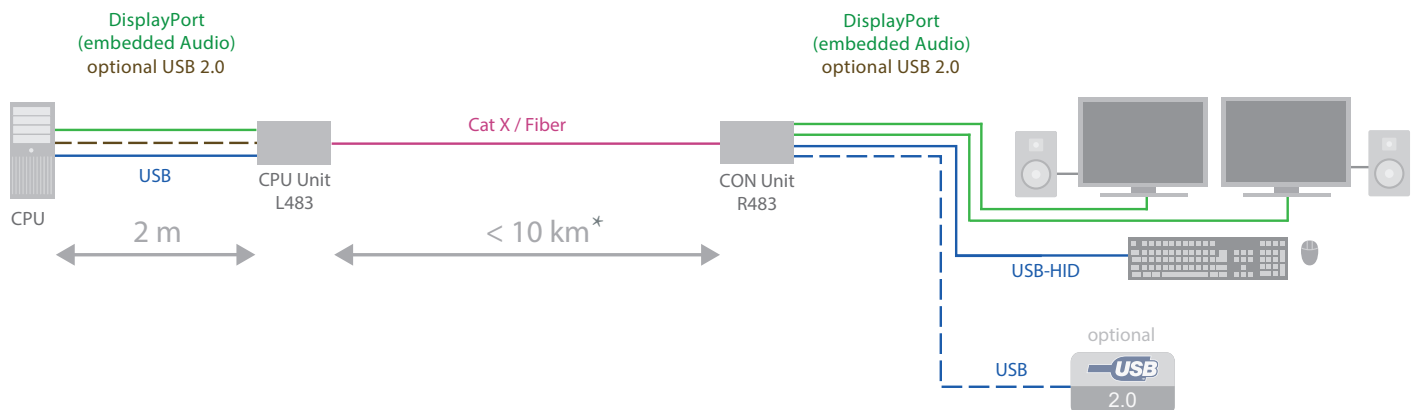
up to 4096 x 2160 (4K DCI) and 3840 x 2160 (UHD). In Dual-Head mode, resolutions of up to 2x 1920 x 1200 pixels per channel are supported. The embedded audio signal is directly reproduced by the connected displays with integrated speakers. In

combination with optional analog or digital audio modules, the stereo signal can be extracted and outputted separately. The Draco vario DisplayPort 1.1 KVM extender is also compatible\* with Draco tera KVM matrix systems.

## PRODUCT FEATURES

- Operation of a CPU from a remote workstation with two DisplayPort monitors and USB HID devices (keyboard/mouse)
- Transmission of fully digital video signals up to 4K DCI (4096 x 2160) and UHD (3840 x 2160) up to 30 Hz, color depth 8 bit (4:4:4)
- The DisplayPort interface can transmit the audio format at a sample rate of up to 192 kHz
- Intelligent monitor EDID management
- Optional: Redundant connections for 24/7 availability
- Compatibility with all common operating systems (Linux, Unix, Windows, Mac OS) and Draco vario chassis
- Compatible with IHSE Draco tera KVM matrix systems, all add-on modules of the Draco vario extender series for audio and data signals such as USB or RS232

## FUNCTIONAL DIAGRAM



\* Related to fiber optic extension and depending on the SFPs used. Already verified maximum distance including USB 2.0 (BXE2): 62 km. Farther distances require individual testing.

| TECHNICAL DATA   |   |  |
|--|---|--|
| Input  | Primary channel: 1x DisplayPort 1.1<br>Secondary channel: 1x Mini DisplayPort 1.1   |  |
| Output   | Primary channel: 1x DisplayPort 1.1<br>Secondary channel: 1x Mini DisplayPort 1.1   |  |
| Audio (embedded)   | Stereo Linear Pulse Code Modulation (LPCM), DTS, DTS-HD (5.1), Dolby Digital, Dolby Digital Plus (5.1)  |  |
| Maximum resolution   | Single-Head operation (primary channel)<br>up to 4096 x 2160 @ 30 Hz - 4K DCI (reduced blanking)  | Dual-Head operation (primary and secondary channel)<br>up to 2x 1920 x 1200 @ 60 Hz (reduced blanking) |
| Keyboard / mouse   | USB-HID   |  |
| Interfaces with optional add-on modules  | USB 2.0 embedded (36, 50/100 or 480 Mbit/s), USB-HID, analog audio with RS232 or RS422, digital audio, balanced audio.<br>Suitable add-on modules under the following link: <a href="https://www.ihse.com/add-on-modules/">https://www.ihse.com/add-on-modules/</a> |  |
| Maximum transmission range for video and USB-HID signals (end-to-end connection) | Cat X: 140 m (459 ft)<br>Single-Mode 9µm: 10,000 m (32,808 ft) - with included SFP**  | Multi-Mode 50µm (OM3): 1,000 m (3,280 ft)<br>Multi-Mode 50µm: 400 m (1,312 ft)                         |
| Power supply   | Power supply via the used Draco vario chassis***  |  |
| Current draw   | Max. 1.600 mA per extender module (power input via the used Draco vario chassis)***   |  |
| Dimensions   | 20 x 129 x 143 mm   |  |
| Weight   | 100 g   |  |
| Chassis / mounting accessories   | Suitable Draco vario chassis and mounting accessories under the following link: <a href="https://www.ihse.com/chassis-accessoires/">https://www.ihse.com/chassis-accessoires/</a>   |  |
| Upgradable   | Onboard flash   |  |



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\*\*\* For detailed information refer to the user manual.

**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.

## ORDER NUMBERS

| DRACO VARIO SERIES 483  | PART NO.   |
|---|------------|
| Draco vario CPU module DP1.1, SH, 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G                        | L483-BSHC  |
| Draco vario CPU module DP1.1, SH, 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 1G                    | L483-BSHS  |
| Draco vario CPU module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G           | L483-BDHC  |
| Draco vario CPU module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 1G       | L483-BDHS  |
| Draco vario CPU module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 3G       | L483-BDHX  |
| Draco vario CPU module DP1.1, SH, 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G, red.                  | L483-BSHCR |
| Draco vario CPU module DP1.1, SH, 1920 x 1200 @ 60 Hz USB HID, LWL LC SM 1G, red.               | L483-BSHSR |
| Draco vario CPU module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G, red.     | L483-BDHCR |
| Draco vario CPU module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 1G, red. | L483-BDHSR |
| Draco vario CPU module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 3G, red. | L483-BDHXR |
| Draco vario CON module DP1.1, SH, 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G                        | R483-BSHC  |
| Draco vario CON module DP1.1, SH, 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 1G                    | R483-BSHS  |
| Draco vario CON module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G           | R483-BDHC  |
| Draco vario CON module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 1G       | R483-BDHS  |
| Draco vario CON module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 3G       | R483-BDHX  |
| Draco vario CON module DP1.1, SH, 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G, red.                  | R483-BSHCR |
| Draco vario CON module DP1.1, SH, 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 1G, red.              | R483-BSHSR |
| Draco vario CON module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, Cat X 1G, red.     | R483-BDHCR |
| Draco vario CON module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 1G, red. | R483-BDHSR |
| Draco vario CON module DP1.1, SH 4K30 o. DH 2x 1920 x 1200 @ 60 Hz, USB HID, LWL LC SM 3G, red. | R483-BDHXR |



IHSE offers an online tool for free configuration of your KVM projects. It enables documentation and verification of individual extenders up to complete matrix applications. All KVM switches and extenders are available for selection, including add-on modules, chassis variants and special accessories: [dsd.ihse.com](https://www.ihse.com/dsd)