DISPLAYPORT KVM EXTENDER



Figure shows L/R483-BSHAS-XSO in chassis 474-BODY2BPF

- Resolutions up to 4K@30 Hz
- Transmission of two video signals via just a single cable
- Audio transmission: analog and digital via 3.5 mm jack
- Field-upgradable redundancy
- Optional ex factory: USB 2.0 transmission

PRODUCT INFORMATION

The Draco vario XSO DisplayPort KVM extenders enable the visually loss-less extension of high-resolution video and audio signals via the DisplayPort interface. Fully digital video signals can be transmitted in Single-Head mode in 4K resolution up to 4096 x 2160 (4K DCI) and 3840 x 2160 (UHD) .

In Dual-Head mode operation, resolutions of up to 1920 x 1200 pixels are supported per channel.
The DisplayPort extender supports video-embedded 2-channel digital audio and is equipped with a 3.5 mm jack for analog stereo audio as well as digital audio via TOS-Link.

All extender modules are prepared for link redundancy. The redundancy feature can be obtained either directly or added at a later stage via Tera Tool and a license key.

PRODUCT FEATURES

- The basic version permits operation of CPUs from a remote workstation with DisplayPort monitor(s), USB-HID (keyboard/mouse) and audio
- Transmission of fully digital video signals up to 4K@30 with Single-Head opeation and Full HD with Dual-Head operation
- Single-Head and Dual-Head video transmission via just a single cable
- PCM audio format can be transferred via the DisplayPort interface (up to 96 kHz)
- Lockable Mini DisplayPort interfaces
- EDID managemenent
- Single-Head CPU: DP 1.1 interface for local video access (feedthrough)
  Single-Head CON: DP 1.1 interface for connecting a mobile device at the workplace (e.g. notebook)
- Optional ex factory: Transmission of USB 2.0
- Optional ex factory or on-site upgradable: Redundant data link for fail-safe operation

Upgrade to Draco XStreme with JPEG XS

Powerful | Efficient | Minimal Effort

Benefit from a future-proof system architecture with an optional upgrade to the JPEG XS-based Draco XStreme series.

- Upgrade possible within the same performance class without hardware replacement
- For technical details and compatibility information:
  Mail: sales@ihse.com
  Phone: +49 7546 9248-42

Draco System Designer
configure your own system

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 chassis variants and special accessories: dsd.ihse.com

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TECHNICAL DATA

Input	2x Mini DisplayPort	
Output	2x Mini DisplayPort	
Service interface	USB-C	
Resolution (max.)	Single-Head operation: up to 4096 x 2160 @ 30 Hz - 4K DCI (reduced blanking) Dual-Head operation: up to 2x 1920 x 1200 @ 60 Hz (reduced blanking)	
Audio	Embedded (Video) Additional Audio	2-channel digital audio analog stereo audio, digital audio (TOS-Link) via 3.5 mm audio connector
Bandwidth	Cat X : 1 Gbit/s (100 m) Fiber: Single mode 9 µm 1 Gbit/s (up to 10,000 m), with multi mode cable up to 800 m	
Optional	USB 2.0 (embedded)	CPU module: 1x USB-B CON module: 2x USB-A (either 1x USB-HID, 1x USB 2.0 or 2x USB-HID) or 4x USB-A (2x USB-HID and 2x USB 2.0)
Scope of delivery	KVM extender pair	1x CPU extender module in a chassis 1x CON extender module in a chassis 1x mini DisplayPort to DisplayPort cable (2x for Dual-Head extender modules), 2 m 1x USB cable (type A-B), 1.8 m 1x Quick Setup
	CPU Unit	1x CPU extender module in a chassis 1x mini DisplayPort to DisplayPort cable (2x for Dual-Head extender modules), 2 m 1x USB cable (type A-B), 1.8 m 1x Quick Setup
	CON Unit	1x CON extender module in a chassis 1x Quick Setup

ARTICLE NUMBERS

Description		**Extender modules without USB 2.0**	
		CPU	**CON**
DisplayPort 1.1 audio, Cat X	Single-Head, up to Full HD, 1G	L483-BSHAC-XSO	R483-BSHAC-XSO
	Single-Head, up to 4K30, 1G	L483-BPHAC-XSO	R483-BPHAC-XSO
	Dual-Head, up to Full HD, 1G	L483-BDHAC-XSO	R483-BDHAC-XSO
DisplayPort 1.1 audio, Cat X redundant	Single-Head, up to Full HD, 1G redundant	L483-BSHACR-XSO	R438-BSHACR-XSO
	Single-Head, up to 4K30, 1G redundant	L483-BPHACR-XSO	R483-BPHACR-XSO
	Dual-Head, up to Full HD, 1G redundant	L483-BDHACR-XSO	R483-BDHACR-XSO
DisplayPort 1.1 audio, fiber SM	Single-Head, up to Full HD, 1G	L483-BSHAS-XSO	R483-BSHAS-XSO
	Single-Head, up to 4K30, 1G	L483-BPHAS-XSO	R483-BPHAS-XSO
	Dual-Head, up to Full HD, 1G	L483-BDHAS-XSO	R483-BDHAS-XSO
DisplayPort 1.1 audio, fiber SM redundant	Single-Head, up to Full HD, 1G redundant	L483-BSHASR-XSO	R483-BSHASR-XSO
	Single-Head, up to 4K30, 1G redundant	L483-BPHASR-XSO	R483-BPHASR-XSO
	Dual-Head, up to Full HD, 1G redundant	L483-BDHASR-XSO	R483-BDHASR-XSO

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Description		Extender modules with USB 2.0		
		CPU with 1x USB-B (USB-HID and USB 2.0)	CON with 2x USB-A (1x USB-HID, 1x USB 2.0)	CON witht 4x USB-A (2x USB-HID, 2x USB 2.0)
DisplayPort 1.1 audio, USB 2.0 Cat X	Single-Head, up to Full HD, 1G	L483-BSHAE2C-XSO	R483-BSHAE2C-XSO	R483-BSHAE4C-XSO
	Single-Head, up to 4K30, 1G	L483-BPHAE2C-XSO	R483-BPHAE2C-XSO	R483-BPHAE4C-XSO
	Dual-Head, up to Full HD, 1G	L483-BDHAE2C-XSO	R483-BDHAE2C-XSO	R483-BDHAE4C-XSO
DisplayPort 1.1 audio, USB 2.0 Cat X redundant	Single-Head, up to Full HD, 1G redundant	L483-BSHAE2CR-XSO	R483-BSHAE2CR-XSO	R483-BSHAE4CR-XSO
	Single-Head, up to 4K30, 1G redundant	L483-BPHAE2CR-XSO	R483-BPHAE2CR-XSO	R483-BPHAE4CR-XSO
	Dual-Head, up to Full HD, 1G redundant	L483-BDHAE2CR-XSO	R483-BDHAE2CR-XSO	R483-BDHAE4CR-XSO
DisplayPort 1.1 audio, USB 2.0 fiber SM	Single-Head, up to Full HD, 1G	L483-BSHAE2S-XSO	R483-BSHAE2S-XSO	R483-BSHAE4S-XSO
	Single-Head, up to 4K30, 1G	L483-BPHAE2S-XSO	R483-BPHAE2S-XSO	R483-BPHAE4S-XSO
	Dual-Head, up to Full HD, 1G	L483-BDHAE2S-XSO	R483-BDHAE2S-XSO	R483-BDHAE4S-XSO
DisplayPort 1.1 audio, USB 2.0 fiber SM redundant	Single-Head, up to Full HD, 1G redundant	L483-BSHAE2SR-XSO	R483-BSHAE2SR-XSO	R483-BSHAE4SR-XSO
	Single-Head, up to 4K30, 1G redundant	L483-BPHAE2SR-XSO	R483-BPHAE2SR-XSO	R483-BPHAE4SR-XSO
	Dual-Head, up to Full HD, 1G redundant	L483-BDHAE2SR-XSO	R483-BDHAE2SR-XSO	R483-BDHAE4SR-XSO

ARTICLE NUMBERS

Description		Article number
Activating link redundancy	Draco vario XSO, upgrade link redundancy for 1 Gbit/s Cat X module	CL-REDUPG-C
	Draco vario XSO, upgrade link redundancy for 1 Gbit/s fiber module (incl. SFP fiber 1G)	CL-REDUPG-S
Upgrade to Draco XStreme	Conversion to Draco XStreme with JPEG XS	XS-UPG
Accessories		
Video cables	Mini DisplayPort to DisplayPort cable (one side lockable), male/male, 2 m	VC-MDPL2DP-020-MM
	Mini DisplayPort to DisplayPort cable (one side lockable), male/male, 3 m	VC-MDPL2DP-030-MM
	Mini DisplayPort to DisplayPort cable (one side lockable), male/male, 5 m	VC-MDPL2DP-050-MM
	Mini DisplayPort cable (one side lockable), male/male, 1.8 m	VC-MDPL2MDP-018-MM
Audio cable	Audio cable for 3.5 mm audio connector, male/male, 2 m	AC-AJ2AJ-020-MM
USB cables	USB cable type A-B, 1.8 m	247-U1
	USB cable type A-B, 3 m	247-U2
	USB extension cable type A-A, 3 m	436-USB20
SFP module	SFP Single-Mode, LC duplex, bidirectional, 1G	459-1S

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