

DISPLAYPORT KVM EXTENDERS



Illustration shows L/R-DPSH-4K-A-S in chassis 474-BODY2BPF

Resolutions of up to 8K@30 Hz*

HDR10 (high dynamic range, 10 bit per color)

Synchronous Signal Delivery - Ultra Low Latency

DCF configurable for USB 2.0

Audio transmission: analog and digital via 3.5 mm jack

Field-upgradable redundancy

PRODUCT INFORMATION

The Draco XStreme DisplayPort KVM extender is one of the first with integrated JPEG XS video codec. This sophisticated technology enables the transmission of fully-digital video signals in impressive quality - with resolutions of up to 4K@60 via 1 Gbit/s and 8K@30* via 3 Gbit/s.

The DisplayPort extender supports video-embedded 8-channel digital audio and is equipped with a 3.5 mm jack for analog stereo audio and digital audio via TOS-Link.

An optional USB 2.0 extension can be added at the factory. This features a configurable Device Class Filtering (DCF) function

which can be used to exclude certain device classes from transmission in order to comply with security requirements.

All 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 8K@30*
- Single-Head and Dual-Head video transmission via just a single cable
- No frame drops, lossless video codec (visually), full color depth (HDR10)
- PCM audio format can be transferred via the DisplayPort interface (up to 96 kHz)
- Lockable Mini DisplayPort interfaces
- EDID management
- Single-Head CPU: DP 1.2 interface for local video access (feed-through)
- Single-Head CON: DP 1.2 interface for connecting a mobile device at the workplace (e.g. notebook)
- Optional ex factory: Extension for USB 2.0 transmission
- Optional ex factory or on site: Redundant data link for fail-safe operation

JPEG XS CODEC

JPEG XS stands for extra speed and extra small - and also for future enhancements based on the following parameters:

- Compression visually lossless up to 16:1
- RGB/YCbCr or raw data compression
- Up to 16 bit per color
- Up to 480 frames / seconds
- No frame drops
- Low latency



* 8K30 in development

TECHNISCHE DATEN

Input	2x Mini DisplayPort	
Output	2x Mini DisplayPort	
Service interface	USB-C	
Resolution (max.)	SL: 1920 x 1200 @ 60 Hz DL: 4096 x 2160 @ 30 Hz 4K: 4096 x 2160 @ 60 Hz, 5120 x 1440 @ 60 Hz 8K: 8192 x 4320 @ 30 Hz*	
Audio	EmbeddedVideo) Additional audio	8-channel digital audio analog stereo audio, digital audio (TOS-Link)
Bandwidth	Cat X : 1 Gbit/s, 3 Gbit/s (100 m) Fiberr: Single-Mode 9 µm 1 Gbit/s / 3 Gbit/s (up to 10,000 m), via Multi-Mode cable (OM3/4) up to 800 m	
Optional	USB 2.0 (embedded)	CPU module: 1x USB-B CON module: 2x USB-A oder 4x USB-A, variable configuration USB-HID or USB 2.0

ARTICLE NUMBERS

Description		Part No.	
		CPU	CON
DisplayPort KVM audio Cat X	Single-Head, up to WUXGA, 1G	L-DPSH-SL-A-C	R-DPSH-SL-A-C
	Single-Head, up to 4K30, 1G	L-DPSH-DL-A-C	R-DPSH-DL-A-C
	Single-Head, up to 4K60, 1G	L-DPSH-4K-A-C	R-DPSH-4K-A-C
	Single-Head, up to 4K60, 3G	L-DPSH-4K-A-CX	R-DPSH-4K-A-CX
	Single-Head, up to 8K30, 3G*	L-DPSH-8K-A-CX	R-DPSH-8K-A-CX
	Dual-Head, bis zu WUXGA, 1G	L-DPDH-SL-A-C	R-DPDH-SL-A-C
	Dual-Head, bis zu 4K30, 1G	L-DPDH-DL-A-C	R-DPDH-DL-A-C
	Dual-Head, bis zu 4K60, 3G	L-DPDH-4K-A-CX	R-DPDH-4K-A-CX
DisplayPort KVM audio Cat X redundant	Single-Head, up to WUXGA, 1G redundant	L-DPSH-SL-A-CR	R-DPSH-SL-A-CR
	Single-Head, up to 4K30, 1G redundant	L-DPSH-DL-A-CR	R-DPSH-DL-A-CR
	Single-Head, up to 4K60, 1G redundant	L-DPSH-4K-A-CR	R-DPSH-4K-A-CR
	Single-Head, up to 4K60, 3G redundant	L-DPSH-4K-A-CXR	R-DPSH-4K-A-CXR
	Single-Head, up to 8K30, 3G redundant*	L-DPSH-8K-A-CXR	R-DPSH-8K-A-CXR
	Dual-Head, up to WUXGA, 1G redundant	L-DPDH-SL-A-CR	R-DPDH-SL-A-CR
	Dual-Head, up to 4K30, 1G redundant	L-DPDH-DL-A-CR	R-DPDH-DL-A-CR
	Dual-Head, up to 4K60, 3G redundant	L-DPDH-4K-A-CXR	R-DPDH-4K-A-CXR
DisplayPort KVM audio fiber SM	Single-Head, up to WUXGA, 1G	L-DPSH-SL-A-S	R-DPSH-SL-A-S
	Single-Head, up to 4K30, 1G	L-DPSH-DL-A-S	R-DPSH-DL-A-S
	Single-Head, up to 4K60, 1G	L-DPSH-4K-A-S	R-DPSH-4K-A-S
	Single-Head, up to 4K60, 3G	L-DPSH-4K-A-SX	R-DPSH-4K-A-SX
	Single-Head, up to 8K30, 3G*	L-DPSH-8K-A-SX	R-DPSH-8K-A-SX
	Dual-Head, up to WUXGA, 1G	L-DPDH-SL-A-S	R-DPDH-SL-A-S
	Dual-Head, up to 4K30, 1G	L-DPDH-DL-A-S	R-DPDH-DL-A-S
	Dual-Head, up to 4K60, 3G	L-DPDH-4K-A-SX	R-DPDH-4K-A-SX
DisplayPort KVM audio fiberr SM redundant	Single-Head, up to WUXGA, 1G redundant	L-DPSH-SL-A-SR	R-DPSH-SL-A-SR
	Single-Head, up to 4K30, 1G redundant	L-DPSH-DL-A-SR	R-DPSH-DL-A-SR
	Single-Head, up to 4K60, 1G redundant	L-DPSH-4K-A-SR	R-DPSH-4K-A-SR
	Single-Head, up to 4K60, 3G redundant	L-DPSH-4K-A-SXR	R-DPSH-4K-A-SXR
	Single-Head, up to 8K30, 3G redundant*	L-DPSH-8K-A-SXR	R-DPSH-8K-A-SXR
	Dual-Head, up to WUXGA, 1G redundant	L-DPDH-SL-A-SR	R-DPDH-SL-A-SR
	Dual-Head, up to 4K30, 1G redundant	L-DPDH-DL-A-SR	R-DPDH-DL-A-SR
	Dual-Head, up to 4K60, 3G redundant	L-DPDH-4K-A-SXR	R-DPDH-4K-A-SXR

* 8K30 in development

ARTICLE NUMBERS

Description		Part No.		
		CPU with USB 2.0	CON with 2x USB-A	CON with 4x USB-A
DisplayPort KVM Audio and USB 2.0 Cat X	Single-Head, up to WUXGA, 1G	L-DPSH-SL-AU2-C	R-DPSH-SL-AU2-C	R-DPSH-SL-AU4-C
	Single-Head, up to 4K30, 1G	L-DPSH-DL-AU2-C	R-DPSH-DL-AU2-C	R-DPSH-DL-AU4-C
	Single-Head, up to 4K60, 1G	L-DPSH-4K-AU2-C	R-DPSH-4K-AU2-C	R-DPSH-4K-AU4-C
	Single-Head, up to 4K60, 3G	L-DPSH-4K-AU2-CX	R-DPSH-4K-AU2-CX	R-DPSH-4K-AU4-CX
	Single-Head, up to 8K30, 3G*	L-DPSH-8K-AU2-CX	R-DPSH-8K-AU2-CX	R-DPSH-8K-AU4-CX
	Dual-Head, up to WUXGA, 1G	L-DPDH-SL-AU2-C	R-DPDH-SL-AU2-C	R-DPDH-SL-AU4-C
	Dual-Head, up to 4K30, 1G	L-DPDH-DL-AU2-C	R-DPDH-DL-AU2-C	R-DPDH-DL-AU4-C
	Dual-Head, up to 4K60, 3G	L-DPDH-4K-AU2-CX	R-DPDH-4K-AU2-CX	R-DPDH-4K-AU4-CX
DisplayPort KVM Audio and USB 2.0 Cat X redundant	Single-Head, up to WUXGA, 1G redundant	L-DPSH-SL-AU2-CR	R-DPSH-SL-AU2-CR	R-DPSH-SL-AU4-CR
	Single-Head, up to 4K30, 1G redundant	L-DPSH-DL-AU2-CR	R-DPSH-DL-AU2-CR	R-DPSH-DL-AU4-CR
	Single-Head, up to 4K60, 1G redundant	L-DPSH-4K-AU2-CR	R-DPSH-4K-AU2-CR	R-DPSH-4K-AU4-CR
	Single-Head, up to 4K60, 3G redundant	L-DPSH-4K-AU2-CXR	R-DPSH-4K-AU2-CXR	R-DPSH-4K-AU4-CXR
	Single-Head, up to 8K30, 3G redundant*	L-DPSH-8K-AU2-CXR	R-DPSH-8K-AU2-CXR	R-DPSH-8K-AU4-CXR
	Dual-Head, up to WUXGA, 1G redundant	L-DPDH-SL-AU2-CR	R-DPDH-SL-AU2-CR	R-DPDH-SL-AU4-CR
	Dual-Head, up to 4K30, 1G redundant	L-DPDH-DL-AU2-CR	R-DPDH-DL-AU2-CR	R-DPDH-DL-AU4-CR
	Dual-Head, up to 4K60, 3G redundant	L-DPDH-4K-AU2-CXR	R-DPDH-4K-AU2-CXR	R-DPDH-4K-AU4-CXR
DisplayPort KVM Audio and USB 2.0 fiber SM	Single-Head, up to WUXGA, 1G	L-DPSH-SL-AU2-S	R-DPSH-SL-AU2-S	R-DPSH-SL-AU4-S
	Single-Head, up to 4K30, 1G	L-DPSH-DL-AU2-S	R-DPSH-DL-AU2-S	R-DPSH-DL-AU4-S
	Single-Head, up to 4K60, 1G	L-DPSH-4K-AU2-S	R-DPSH-4K-AU2-S	R-DPSH-4K-AU4-S
	Single-Head, up to 4K60, 3G	L-DPSH-4K-AU2-SX	R-DPSH-4K-AU2-SX	R-DPSH-4K-AU4-SX
	Single-Head, up to 8K30, 3G*	L-DPSH-8K-AU2-SX	R-DPSH-8K-AU2-SX	R-DPSH-8K-AU4-SX
	Dual-Head, up to WUXGA, 1G	L-DPDH-SL-AU2-S	R-DPDH-SL-AU2-S	R-DPDH-SL-AU4-S
	Dual-Head, up to 4K30, 1G	L-DPDH-DL-AU2-S	R-DPDH-DL-AU2-S	R-DPDH-DL-AU4-S
	Dual-Head, up to 4K60, 3G	L-DPDH-4K-AU2-SX	R-DPDH-4K-AU2-SX	R-DPDH-4K-AU4-SX
DisplayPort KVM Audio and USB 2.0 fiber SM redundant	Single-Head, up to WUXGA, 1G redundant	L-DPSH-SL-AU2-SR	R-DPSH-SL-AU2-SR	R-DPSH-SL-AU4-SR
	Single-Head, up to 4K30, 1G redundant	L-DPSH-DL-AU2-SR	R-DPSH-DL-AU2-SR	R-DPSH-DL-AU4-SR
	Single-Head, up to 4K60, 1G redundant	L-DPSH-4K-AU2-SR	R-DPSH-4K-AU2-SR	R-DPSH-4K-AU4-SR
	Single-Head, up to 4K60, 3G redundant	L-DPSH-4K-AU2-SXR	R-DPSH-4K-AU2-SXR	R-DPSH-4K-AU4-SXR
	Single-Head, up to 8K30, 3G redundant*	L-DPSH-8K-AU2-SXR	R-DPSH-8K-AU2-SXR	R-DPSH-8K-AU4-SXR
	Dual-Head, up to WUXGA, 1G redundant	L-DPDH-SL-AU2-SR	R-DPDH-SL-AU2-SR	R-DPDH-SL-AU4-SR
	Dual-Head, up to 4K30, 1G redundant	L-DPDH-DL-AU2-SR	R-DPDH-DL-AU2-SR	R-DPDH-DL-AU4-SR
	Dual-Head, up to 4K60, 3G redundant	L-DPDH-4K-AU2-SXR	R-DPDH-4K-AU2-SXR	R-DPDH-4K-AU4-SXR

Description		Part No.
Activating link redundancy	Draco XStreme, upgrade link redundancy for 1 Gbit/s Cat X module	XS-REDUPG-C
	Draco XStreme, upgrade link redundancy for 3 Gbit/s Cat X module	XS-REDUPG-CX
	Draco XStreme, upgrade link redundancy for 1 Gbit/s fiber module	XS-REDUPG-S
	Draco XStreme, upgrade link redundancy for 3 Gbit/s fiber module	XS-REDUPG-SX

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