

DL-VISION-DP(M)-ARU2+CPU

KVM extenders, Article number A1110187



The KVM extenders of the DL-Vision-DP series extend keyboard, video, and mouse signals, as well as other peripheral data (e.g., audio and USB), via a dedicated fiber connection (up to 10,000 m) uncompressed, pixel-perfect and without any latency or loss. An extender system consists of a computer module (CPU) and a console module (CON). The DL-Vision-DP series supports DisplayPort 1.1 for high-resolution video up to 2560 × 1600 (60 Hz) or 4096 × 2160 (30 Hz).

SCOPE OF DELIVERY

Quantity	Description	Article number
2	PowerCable-2 Standard cable 2m	A6300057
1	DP1.4-Cable-M/M-2 SK13357 2m	A6300173
2	USB-AM/BM-2 cable USB 2m	A6300113
1	RS232-M/F-2 cable RS232 2m	A6300023
2	Audio-M/M-2-ferrite cable 2m	A6300083
1	19" RM-Set-436-1RU-Type2	A7000011

DETAILS

VIDEO

- EDID data utilization from the workplace monitor
- Flexible EDID profile options for optimized monitor settings
- Resolution up to
2560 × 1600 @ 60 Hz,
4096 × 2160 @ 30 Hz

SIGNALS

- Transparent audio signals (stereo, analog)
- Embedded stereo audio (Digital, 2 channel LPCM)
- Transparent RS232 (max. 230,400 bps)
- USB 2.0 with Hi-Speed (separate transmission line, transparent, all USB classes)

TRANSMISSION

- The transmission distance is up to 400 meters over fiber multimode optics, incl. transmission module(s)/SFP transceiver(s)

DEVICE

- Improved security through physical separation between workplaces and computers
- Access to standard interfaces of the computer, with no software installation required
- MultiChannel variants (MC): Modules for multi-monitor workplaces with multi-channel video
 - MC mode uses the full bandwidth for each video channel, whereby a separate transmission line is required for each channel

WARRANTY

- A 3-year, free of charge product guarantee
- For an additional fee guarantee extension/guarantee renewal possible

FEATURES

SECURITY FEATURES

- Early detection of security incidents or unusual activities through continuous monitoring via Syslog, monitoring, and SNMP
- Comprehensive rights management and user administration, allowing precise control over which user can access which resources
- Option for activatable access protection (default operating mode in matrix systems), in which authentication is required before accessing computer sources
- Support for external directory services (Active Directory, Radius, LDAP) to meet company security policies
- Freeze function: If the video signal is lost, the last displayed image is frozen and highlighted with a colored frame and timer
- Redundant internal power packs
- Redundant network interface

OPERATION FEATURES

- Ready for operation out of the box, no additional configuration required
- Permanent keyboard/mouse emulation ensures a stable system
- Operation via multilingual on-screen display (OSD) and hotkeys
- Support of DDC/CI (Display Data Channel / Command Interface) to enable centralized software-side control of monitor settings such as brightness
- Local console at the computer module allows on-site operation, including all video channels
- Exclusive or concurrent operation: The KVM extender allows computer control both remotely and locally. When an input is detected, the extender automatically locks the competing console. The lock is lifted after a preset timeout if no further input is detected. A key combination can activate exclusive operation, immediately disabling the competing console. Another key combination restores shared control.

TECHNICAL DATA

General	Product group	KVM extenders
Input options	USB mouse	yes
	USB keyboard	yes
	PS/2 mouse	yes
	PS/2 keyboard	yes
Transmission	Number of transmission channels	2
	Redundant transmission channels	no redundant KVM transmission
	Range	400 m (50.0/125µm, OM4 - 4700MHz*km) 300 m (50.0/125µm, OM3 - 2000MHz*km) 82 m (50.0/125µm, OM2 - 500MHz*km) 66 m (50.0/125µm) 33 m (62.5/125µm, OM1 - 200MHz*km) 26 m (62.5/125µm)
	Laser class	Class 1
	Type of interface	LC-Duplex
	Wavelength	850 nm
	Medium	Fiber MM
	Data rate	10 Gbit/s
Video input	Number of video channels	1
	Format	DisplayPort 1.1
	Colour depth	24 bit

	Pixel rate	ca. 25 MPixel/s to ca. 300 MPixel/s
	Vertical frequency	20 Hz to 120 Hz
	Horizontal frequency	25 kHz to 185 kHz
	Exemplary resolutions	4096 × 2160 (30 Hz) - 2K / WQXGA 3840 × 2160 (30 Hz) - 2K / WQXGA 2560 × 1600 (60 Hz) - 2K / WQXGA 2048 × 2048 (60 Hz) - 2K / WQXGA 2048 × 2160 (60 Hz) - 2K / WQXGA Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.
Audio	Transmission type	Stereo Transparent
	Resolutions	24 bit digital
	Sampling rate	up to 96 kHz
	Bandwidth	22 kHz
	Audio support	Analog
Audio 2	Transmission type	Stereo 2-channel LPCM
	Resolutions	24 bit 20 bit 16 bit
	Sampling rate	32 kHz 44,1 kHz 48 kHz 88,2 kHz 96 kHz 176,4 kHz 192 kHz
	Audio support	Digital Embedded

USB	Separate USB transmission port	yes
	Specification	USB 2.0
	Medium	Fiber MM
	Transmission rate	480 Mbit/s (Hi-Speed)
	Range	max. 550 m
	Power (output)	500 mA (HighPower)
	USB classes	All
Serial	Standard	RS232
	Transparent transmission	yes
	Data rate	max. 230400 bps
	Signals	TxD RxD DTR DSR RTS CTS DCD
Network	Medium 1	CAT7 CAT6 CAT5
	Data rate 1	10 MBit/s 100 MBit/s 1 GBit/s
	Medium 2	CAT5 CAT6 CAT7

	Data rate 2	10 MBit/s 100 MBit/s 1 GBit/s
	Update via	ConfigPanel (Network)
	Serviceport settings	230400bps (8/N/1)
Maintenance		
Housing	Material	anodised aluminium
	Width	ca. 436 mm
	Height	ca. 44 mm
	Depth	ca. 284 mm
	IP protection class	IP20
	Weight	ca. 3.38 kg
Operating conditions	Operating temperature	5 °C to 45 °C
	Operating air humidity	up to 80 %, non-condensing
	Area of application	Interior
	Maximum operating altitude	3048m above sea level
	Storage temperature	-10 °C to 55 °C
	Storage air humidity	up to 85 %, non-condensing
	MTBF	170000 h at 25°C

	Conformities	CE compliant (see downloads) UKCA compliant (see downloads) FCC compliant (see manual) TAA compliant (see downloads) EAC compliant (see downloads) RoHS compliant (see downloads) WEEE (reg. no. DE30763240) REACH compliant (see downloads)
Power supply	Input voltage	100-240 VAC
	Input frequency	60-50 Hz
	Current consumption	0.4-0.2 A
	Power consumption idle	11.5-11.9 W
	Power consumption max.	20.7-20.6 W
	Heat output idle	11.5-11.9 W
	Heat output max.	17.7-17.6 W
Power supply 2	Input voltage	100-240 VAC
	Input frequency	60-50 Hz
	Current consumption	0.4-0.2 A
	Power consumption idle	11.5-11.9 W
	Power consumption max.	20.7-20.6 W
	Heat output idle	11.5-11.9 W
	Heat output max.	17.7-17.6 W

MORE VARIANTS

Description	Article number
DL-Vision-DP(M)-AR-CPU Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber multimode	A1110179
DL-Vision-DP(M)-MC2-AR-CPU Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber multimode	A1210095
DL-Vision-DP(M)-MC2-ARU2+CPU Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber multimode	A1210185

CONTACT

WE ARE HERE FOR YOU!

If you have any further questions, we are looking forward to advising you on your individual project requirements.

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