

# DL-VISION-DP(S)-AR-CPU

KVM extenders, Article number A1110181



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       |
| 1        | 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)

### TRANSMISSION

- The transmission distance is up to 10,000 meters over fiber singlemode 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 | 1                                   |
|               | Redundant transmission channels | no redundant KVM transmission       |
|               | Range                           | 10000 m (9/125µm, OS1)              |
|               | Laser class                     | Class 1                             |
|               | Type of interface               | LC-Duplex                           |
|               | Wavelength                      | 1310 nm                             |
|               | Medium                          | Fiber SM                            |
|               | 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<br>3840 × 2160 (30 Hz) - 2K / WQXGA<br>2560 × 1600 (60 Hz) - 2K / WQXGA<br>2048 × 2048 (60 Hz) - 2K / WQXGA<br>2048 × 2160 (60 Hz) - 2K / WQXGA<br>Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
| Audio   | Transmission type        | Stereo<br>Transparent                                                                                                                                                                                                                                                                           |
|         | Resolutions              | 24 bit digital                                                                                                                                                                                                                                                                                  |
|         | Sampling rate            | up to 96 kHz                                                                                                                                                                                                                                                                                    |
|         | Bandwidth                | 22 kHz                                                                                                                                                                                                                                                                                          |
|         | Audio support            | Analog                                                                                                                                                                                                                                                                                          |
| Audio 2 | Transmission type        | Stereo<br>2-channel LPCM                                                                                                                                                                                                                                                                        |
|         | Resolutions              | 24 bit<br>20 bit<br>16 bit                                                                                                                                                                                                                                                                      |
|         | Sampling rate            | 32 kHz<br>44,1 kHz<br>48 kHz<br>88,2 kHz<br>96 kHz<br>176,4 kHz<br>192 kHz                                                                                                                                                                                                                      |
|         | Audio support            | Digital Embedded                                                                                                                                                                                                                                                                                |
|         |                          |                                                                                                                                                                                                                                                                                                 |
| Serial  | Standard                 | RS232                                                                                                                                                                                                                                                                                           |
|         | Transparent transmission | yes                                                                                                                                                                                                                                                                                             |
|         | Data rate                | max. 230400 bps                                                                                                                                                                                                                                                                                 |

|                      |                       |                                               |
|----------------------|-----------------------|-----------------------------------------------|
|                      | Signals               | TxD<br>RxD<br>DTR<br>DSR<br>RTS<br>CTS<br>DCD |
| Network              | Medium 1              | CAT7<br>CAT6<br>CAT5                          |
|                      | Data rate 1           | 10 MBit/s<br>100 MBit/s<br>1 GBit/s           |
|                      | Medium 2              | CAT5<br>CAT6<br>CAT7                          |
|                      | Data rate 2           | 10 MBit/s<br>100 MBit/s<br>1 GBit/s           |
| Maintenance          | Update via            | ConfigPanel (Network)                         |
|                      | Serviceport settings  | 230400bps (8/N/1)                             |
| Housing              | Material              | anodised aluminium                            |
|                      | Width                 | ca. 436 mm                                    |
|                      | Height                | ca. 44 mm                                     |
|                      | Depth                 | ca. 284 mm                                    |
|                      | IP protection class   | IP20                                          |
|                      | Weight                | ca. 3.31 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)<br>UKCA compliant (see downloads)<br>FCC compliant (see manual)<br>TAA compliant (see downloads)<br>EAC compliant (see downloads)<br>RoHS compliant (see downloads)<br>WEEE (reg. no. DE30763240)<br>REACH compliant (see downloads) |
| Power supply   | Input voltage              | 100-240 VAC                                                                                                                                                                                                                                                       |
|                | Input frequency            | 60-50 Hz                                                                                                                                                                                                                                                          |
|                | Current consumption        | 0.3-0.2 A                                                                                                                                                                                                                                                         |
|                | Power consumption idle     | 9.1-9.7 W                                                                                                                                                                                                                                                         |
|                | Power consumption max.     | 18.1-18.2 W                                                                                                                                                                                                                                                       |
|                | Heat output idle           | 9.1-9.7 W                                                                                                                                                                                                                                                         |
|                | Heat output max.           | 15.1-15.2 W                                                                                                                                                                                                                                                       |
| Power supply 2 | Input voltage              | 100-240 VAC                                                                                                                                                                                                                                                       |
|                | Input frequency            | 60-50 Hz                                                                                                                                                                                                                                                          |
|                | Current consumption        | 0.3-0.2 A                                                                                                                                                                                                                                                         |

|  |                        |             |
|--|------------------------|-------------|
|  | Power consumption idle | 9.1-9.7 W   |
|  | Power consumption max. | 18.1-18.2 W |
|  | Heat output idle       | 9.1-9.7 W   |
|  | Heat output max.       | 15.1-15.2 W |

## MORE VARIANTS

| Description                                                                                                                | Article number |
|----------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DL-Vision-DP(S)-ARU2+CPU</b><br>Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber singlemode     | A1110189       |
| <b>DL-Vision-DP(S)-MC2-AR-CPU</b><br>Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber singlemode   | A1210093       |
| <b>DL-Vision-DP(S)-MC2-ARU2+CPU</b><br>Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber singlemode | A1210186       |

# 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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