

# DL-VISION-DP(S)-MC2-ARU2+CON

KVM extenders, Article number A1220077



Front



Back

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        | 19" RM-Set-436-1RU-Type2                | A7000011       |
| 1        | Java CP Launcher                        | A8200052       |
| 1        | Safety instructions flyer - FCC class B | A9100371       |

## 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 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 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                     |
|               | Product Family                  | DL-Vision-DP                      |
|               | Power Supply                    | Redundancy without load balancing |
| Input options | USB mouse                       | yes                               |
|               | USB keyboard                    | yes                               |
|               | PS/2 mouse                      | yes                               |
|               | PS/2 keyboard                   | yes                               |
| Transmission  | Number of transmission channels | 3                                 |
|               | Redundant transmission channels | no redundant KVM transmission     |
|               | Range                           | 10,000 m (9/125µm, OS1)           |
|               | Laser class                     | Class 1                           |
|               | Type of interface               | LC-Duplex                         |
|               | Wavelength                      | 1,310 nm                          |
|               | Medium                          | Fiber SM                          |
|               | Data rate                       | 10 Gbit/s                         |
| Video output  | Quantity                        | 2                                 |
|               | Format                          | DisplayPort 1.1 (HBR2)            |
|               | Colour depth                    | 24 bit                            |
|               | Pixel rate ca.                  | 25 MPixel/s to 300 MPixel/s       |

|         |                       |                                                                                                                      |
|---------|-----------------------|----------------------------------------------------------------------------------------------------------------------|
|         | Vertical frequency    | 20 Hz to 120 Hz                                                                                                      |
|         | Horizontal frequency  | 25 kHz to 185 kHz                                                                                                    |
|         | Exemplary resolutions | 4096 × 2160 (30 Hz)<br>3840 × 2160 (30 Hz)<br>2560 × 1600 (60 Hz)<br>2048 × 2048 (60 Hz)<br>2048 × 2160 (60 Hz)      |
|         | General Notes         | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.          |
| Audio 1 | 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         | up to 32 kHz<br>up to 44.1 kHz<br>up to 48 kHz<br>up to 88.2 kHz<br>up to 96 kHz<br>up to 176.4 kHz<br>up to 192 kHz |
|         | Audio support         | Digital Embedded                                                                                                     |

|             |                                |                                               |
|-------------|--------------------------------|-----------------------------------------------|
| USB         | Separate USB transmission port | yes                                           |
|             | Specification                  | USB 2.0                                       |
|             | Medium                         | Fiber SM                                      |
|             | Transmission rate              | max. 480 Mbit/s (Hi-Speed)                    |
|             | Range                          | max. 5,000 m                                  |
|             | Power (output)                 | 500 mA (HighPower)                            |
|             | USB classes                    | All                                           |
| Serial      | Standard                       | RS232                                         |
|             | Transparent transmission       | yes                                           |
|             | Data rate                      | max. 230,400 bps                              |
|             | Signals                        | TxD<br>RxD<br>DTR<br>DSR<br>RTS<br>CTS<br>DCD |
| Network     | Quantity                       | 2                                             |
|             | Medium                         | CAT5<br>CAT6<br>CAT7                          |
|             | Data rate                      | 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.                                 | 3.37 kg                                                                                                                                                                                                                                                           |
| Operating conditions | Operating temperature                      | 5 °C to 45 °C                                                                                                                                                                                                                                                     |
|                      | Operating air humidity, non-condensing     | 0 % to 80 %                                                                                                                                                                                                                                                       |
|                      | Area of application                        | Indoor use                                                                                                                                                                                                                                                        |
|                      | Maximum operating altitude above sea level | 3,048 m                                                                                                                                                                                                                                                           |
|                      | Storage temperature                        | -10 °C to 55 °C                                                                                                                                                                                                                                                   |
|                      | Storage air humidity, non-condensing       | 0 % to 85 %                                                                                                                                                                                                                                                       |
|                      | MTBF                                       | 85,000 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         | Quantity                                   | 2                                                                                                                                                                                                                                                                 |
|                      | Type                                       | Internal                                                                                                                                                                                                                                                          |

|  |                        |             |
|--|------------------------|-------------|
|  | Input voltage          | 100-240 VAC |
|  | Input frequency        | 60-50 Hz    |
|  | Current consumption    | 0.9-0.4 A   |
|  | Power consumption idle | 21.7-22.1 W |
|  | Power consumption max. | 40.4-41 W   |
|  | Heat output idle       | 21.7-22.1 W |
|  | Heat output max.       | 27.4-28 W   |



## ACCESSORY PRODUCTS

| Image                                                                             | Description                                                                             | Article number |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------|
|  | <b>USB-Service-2 cable 2m</b><br>Cable for system updates and configuration             | A6200103       |
|  | <b>PowerCable-3 Standard cable 3m</b><br>Cable to connect the power supply type Germany | A6300066       |
|  | <b>PowerCable-5 Standard cable 5m</b><br>Cable to connect the power supply type Germany | A6300065       |

## RELATED PRODUCTS

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

## MORE VARIANTS

| Description                                                                                                              | Article number |
|--------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DL-Vision-DP(S)-AR-CON</b><br>Console module to receive Dual-Link-DVI or DisplayPort signals via fiber singlemode     | A1120212       |
| <b>DL-Vision-DP(S)-ARU2-CON</b><br>Console module to receive Dual-Link-DVI or DisplayPort signals via fiber singlemode   | A1120281       |
| <b>DL-Vision-DP(S)-MC2-AR-CON</b><br>Console module to receive Dual-Link-DVI or DisplayPort signals via fiber singlemode | A1220074       |

# 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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