

# DL-VISION-DP(M)-MC2-AR-CON

KVM extenders, Article number A1220076



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)

### 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 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 | 2                                                                                                                                                                                                  |
|               | Redundant transmission channels | no redundant KVM transmission                                                                                                                                                                      |
|               | Range                           | 400 m (50.0/125µm, OM4 - 4700MHz*km)<br>300 m (50.0/125µm, OM3 - 2000MHz*km)<br>82 m (50.0/125µm, OM2 - 500MHz*km)<br>66 m (50.0/125µm)<br>33 m (62.5/125µm, OM1 - 200MHz*km)<br>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                                                                                                                                                                                          |
|               | Quantity                        | 2                                                                                                                                                                                                  |
| 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                                                                                                     |
| 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.                                 | 3.01 kg                                                                                                                                                                                                                                                           |
| Operating conditions | Operating environment 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 environment temperature            | -10 °C to 55 °C                                                                                                                                                                                                                                                   |
|                      | Storage air humidity, non-condensing       | 0 % to 85 %                                                                                                                                                                                                                                                       |
|                      | MTBF                                       | 150,000 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    | 0.5-0.2 A |
|  | Power consumption idle | 19 W      |
|  | Power consumption max. | 26 W      |
|  | Heat output idle       | 19 W      |
|  | Heat output max.       | 23 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(M)-MC2-AR-CPU</b><br>Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber multimode | A1210095       |

## MORE VARIANTS

| Description                                                                                                               | Article number |
|---------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DL-Vision-DP(M)-AR-CON</b><br>Console module to receive Dual-Link-DVI or DisplayPort signals via fiber multimode       | A1120210       |
| <b>DL-Vision-DP(M)-ARU2+CON</b><br>Console module to receive Dual-Link-DVI or DisplayPort signals via fiber multimode     | A1120280       |
| <b>DL-Vision-DP(M)-MC2-ARU2+CON</b><br>Console module to receive Dual-Link-DVI or DisplayPort signals via fiber multimode | A1220078       |

# 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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