

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

KVM extenders, Article number A1220074



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 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       | Brand                           | G&D                               |
|               | Product group                   | KVM extenders                     |
|               | Product Family                  | DL-Vision-DP                      |
|               | Country of origin               | Germany                           |
|               | 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                           | 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   |
| 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   |
|             | Active cooling (fan)     | no   |

|                      |  |   |
|----------------------|--|---|
|                      | Width ca.                                  | 436 mm  |
|                      | Height ca.                                 | 44 mm   |
|                      | Depth ca.                                  | 284 mm  |
|                      | IP protection class                        | IP20  |
| 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(S)-MC2-AR-CPU</b><br>Computer module to extend Dual-Link-DVI or DisplayPort signals via fiber singlemode | A1210093       |

## 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-ARU2+CON</b><br>Console module to receive Dual-Link-DVI or DisplayPort signals via fiber singlemode | A1220077       |

# CONTACT

## WE ARE HERE FOR YOU!

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

### TECHNICAL SALES

Tel.: +49 271 23872-333  
Fax: +49 271 23872-120  
E-Mail: [sales@gdsys.com](mailto:sales@gdsys.com)

### HEADQUARTERS

Guntermann & Drunck GmbH Systementwicklung  
Obere Leimbach 9 | 57074 Siegen | NRW |  
Deutschland

Tel.: +49 271 23872-0  
Fax: +49 271 23872-120  
E-Mail: [sales@gdsys.com](mailto:sales@gdsys.com)

### US OFFICE

G&D North America Inc.  
4540 Kendrick Plaza Drive | Suite 100  
Houston, TX 77032 | United States

Tel.: +1-346-620-4362  
E-Mail: [sales.us@gdsys.com](mailto:sales.us@gdsys.com)

### MIDDLE EAST OFFICE

Guntermann & Drunck GmbH  
Dubai Studio City | DSC Tower  
12th Floor, Office 1208 | Dubai, UAE

Tel.: +971 4 5586178  
E-Mail: [sales.me@gdsys.com](mailto:sales.me@gdsys.com)

### APAC OFFICE

Guntermann & Drunck GmbH  
60 Anson Road #17-01  
Singapore 079914

Tel.: +65 9685 8807  
E-Mail: [sales.apac@gdsys.com](mailto:sales.apac@gdsys.com)