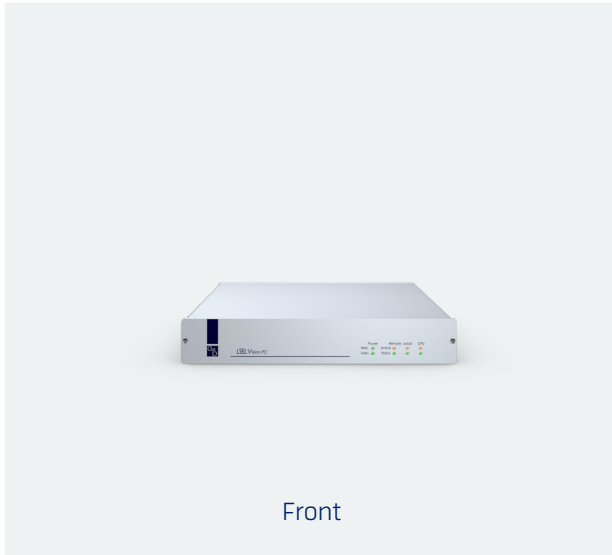
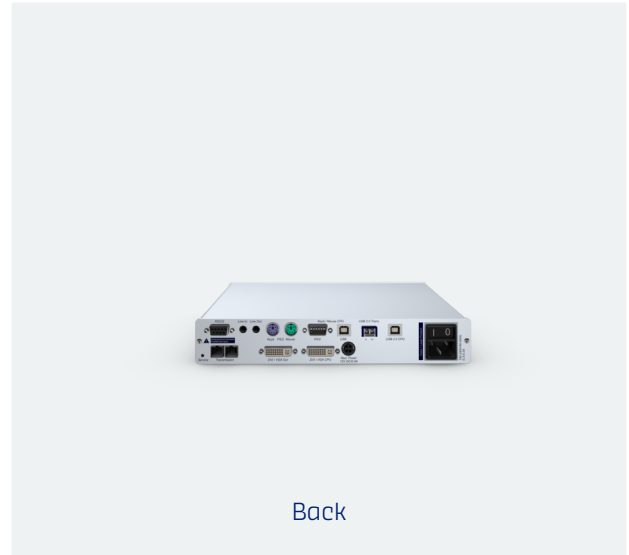


## LWLVISION(M)-ARU2-PC

KVM extenders, Article number A1110150



Front



Back

The KVM extenders of the LwLVision 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 550 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 LwLVision series supports SingleLink DVI-I connection for analog and digital video resolutions up to 1920 × 1200 (60 Hz).

## SCOPE OF DELIVERY

| Quantity | Description                             | Article number |
|----------|-----------------------------------------|----------------|
| 1        | PowerCable-2 Standard cable 2m          | A6300057       |
| 1        | DVI-D-DL-M/M-2 cable DVI-D 2m           | A6300100       |
| 1        | VGA-M/DVI-A-M-2 cable VGA-DVI 2m        | A6300053       |
| 2        | USB-AM/BM-2 cable USB 2m                | A6300113       |
| 1        | SOKA-G-2 cable G 2m                     | A6100045       |
| 1        | RS232-M/F-2 cable RS232 2m              | A6300023       |
| 2        | Audio-M/M-2-ferrite cable 2m            | A6300083       |
| 1        | Safety instructions flyer - FCC class B | A9100371       |

## DETAILS

### VIDEO

- Resolution up to  
1920 × 1200 @ 60 Hz,  
1280 × 1024 @ 85 Hz
- Resolution up to  
1920 × 1200 @ 60 Hz,  
1280 × 1024 @ 85 Hz

### SIGNALS

- Bidirectional audio signals in stereo/CD quality
- Transparent RS232 (max. 57,600 bps)
- USB 2.0 with Hi-Speed (separate transmission line, transparent, all USB classes)

### TRANSMISSION

- The transmission distance is up to 550 meters over fiber multimode optics, incl. transmission module(s)/SFP transceiver(s)
- Uncompressed
- Uncompressed

### DEVICE

- Improved security through physical separation between workplaces and computers
- Access to standard interfaces of the computer, with no software installation required
- Internal power pack for main power supply

### WARRANTY

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

## FEATURES

### OPERATION FEATURES

- Ready for operation out of the box, no additional configuration required
- Operation via multilingual on-screen display (OSD) and hotkeys



## EXTENSIONS

### DEVICE

- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply

## TECHNICAL DATA

|               |                                 |                                                    |
|---------------|---------------------------------|----------------------------------------------------|
| General       | Product group                   | KVM extenders                                      |
|               | Product Family                  | LwLVision                                          |
|               | 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                           | 550 m (50.0/125µm, OM1)<br>220 m (62.5/125µm, OM1) |
|               | Laser class                     | Class 1                                            |
|               | Type of interface               | SC-Duplex                                          |
|               | Wavelength                      | 850 nm                                             |
|               | Medium                          | Fiber MM                                           |
|               | Data rate                       | 1 Gbit/s                                           |
| Video input 1 | Quantity                        | 1                                                  |
|               | Format                          | VGA                                                |
|               | Colour depth                    | 24 bit                                             |
|               | Pixel rate ca.                  | 0 MHz to 165 MHz                                   |

|                |                              |                                                                                                             |
|----------------|------------------------------|-------------------------------------------------------------------------------------------------------------|
|                | Vertical frequency           | 50 Hz to 120 Hz                                                                                             |
|                | Horizontal frequency         | 30 kHz to 110 kHz                                                                                           |
|                | Exemplary resolutions        | 1920 × 1200 (60 Hz)                                                                                         |
|                | Supported industry standards | Display Data Channel (DDC)                                                                                  |
| Video input 2  | Quantity                     | 1                                                                                                           |
|                | Format                       | Singlelink DVI                                                                                              |
|                | Colour depth                 | 24 bit                                                                                                      |
|                | Pixel rate ca.               | 0 MHz to 165 MHz                                                                                            |
|                | Vertical frequency           | 50 Hz to 120 Hz                                                                                             |
|                | Horizontal frequency         | 30 kHz to 110 kHz                                                                                           |
|                | Exemplary resolutions        | 1920 × 1200 (60 Hz)<br>1920 × 1080 (60 Hz)<br>1600 × 1200 (60 Hz)                                           |
|                | General Notes                | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
|                | Supported industry standards | Display Data Channel (DDC)                                                                                  |
| Video output 1 | Quantity                     | 1                                                                                                           |
|                | Format                       | Singlelink DVI                                                                                              |
|                | Colour depth                 | 24 bit                                                                                                      |
|                | Pixel rate ca.               | 0 MHz to 165 MHz                                                                                            |
|                | Vertical frequency           | 50 Hz to 120 Hz                                                                                             |
|                | Horizontal frequency         | 30 kHz to 110 kHz                                                                                           |

|                |                                |                                                                                                                 |
|----------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------|
|                | Exemplary resolutions          | 1920 × 1200 (60 Hz)<br>1920 × 1080 (60 Hz)<br>1600 × 1200 (60 Hz)<br>1280 × 1024 (85 Hz)<br>1280 × 1024 (60 Hz) |
|                | General Notes                  | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.     |
|                | Supported industry standards   | Display Data Channel (DDC)                                                                                      |
| Video output 2 | Quantity                       | 1                                                                                                               |
|                | Format                         | VGA                                                                                                             |
|                | Colour depth                   | 24 bit                                                                                                          |
|                | Pixel rate ca.                 | 0 MHz to 165 MHz                                                                                                |
|                | Vertical frequency             | 50 Hz to 120 Hz                                                                                                 |
|                | Horizontal frequency           | 30 kHz to 110 kHz                                                                                               |
|                | Exemplary resolutions          | 1920 × 1200 (60 Hz)                                                                                             |
|                | Supported industry standards   | Display Data Channel (DDC)                                                                                      |
| Audio          | Transmission type              | Bidirectional<br>Transparent<br>Stereo                                                                          |
|                | Resolutions                    | 18 bit digital                                                                                                  |
|                | Sampling rate                  | up to 48 kHz                                                                                                    |
|                | Bandwidth                      | 22 kHz                                                                                                          |
|                | Audio support                  | Analog                                                                                                          |
| USB            | Separate USB transmission port | yes                                                                                                             |

|             |                          |                                               |
|-------------|--------------------------|-----------------------------------------------|
|             | Specification            | USB 2.0                                       |
|             | Medium                   | Fiber MM                                      |
|             | Transmission rate        | max. 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. 57,600 bps                               |
|             | Signals                  | TxD<br>RxD<br>DTR<br>DSR<br>RTS<br>CTS<br>DCD |
| Maintenance | Update via               | Update Wizard (service interface)             |
| Housing     | Material                 | anodised aluminium                            |
|             | Width ca.                | 270 mm                                        |
|             | Height ca.               | 44 mm                                         |
|             | Depth ca.                | 210 mm                                        |
|             | IP protection class      | IP20                                          |
|             | Weight ca.               | 1.5 kg                                        |

|                      |                                            |                                                                                                                                                                                                                                                                   |
|----------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating conditions | Operating temperature                      | 5 °C to 40 °C                                                                                                                                                                                                                                                     |
|                      | Operating air humidity, non-condensing     | 20 % 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       | 15 % to 80 %                                                                                                                                                                                                                                                      |
|                      | 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 1       | Quantity                                   | 1                                                                                                                                                                                                                                                                 |
|                      | Type                                       | Internal                                                                                                                                                                                                                                                          |
|                      | Input voltage                              | 100-240 VAC                                                                                                                                                                                                                                                       |
|                      | Input frequency                            | 60-50 Hz                                                                                                                                                                                                                                                          |
|                      | Current consumption                        | 0.3-0.2 A                                                                                                                                                                                                                                                         |
| Power supply 2       | Quantity                                   | 1                                                                                                                                                                                                                                                                 |
|                      | Type                                       | External                                                                                                                                                                                                                                                          |
|                      | Input voltage                              | 12 VDC                                                                                                                                                                                                                                                            |
|                      | Current consumption                        | 0.9 A                                                                                                                                                                                                                                                             |

## ACCESSORY PRODUCTS

| Image                                                                               | Description                                                                                                    | Article number |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------|
|    | <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       |
|    | <b>RS232-M/F-3 cable RS232 3m</b><br>Cable to connect a serial device                                          | A6300024       |
|    | <b>RS232-M/F-5 cable RS232 5m</b><br>Cable to connect a serial device                                          | A6300025       |
|    | <b>USB-AM/BM-3 cable USB 3m</b><br>USB cable, Type-A Plug/Type-B Plug                                          | A6300114       |
|   | <b>USB-AM/BM-5 cable USB 5m</b><br>USB cable, Type-A Plug/Type-B Plug                                          | A6300111       |
|  | <b>Audio-M/M-3-ferrite cable 3m</b><br>Audio connection cable with ferrite core                                | A6300118       |
|  | <b>Audio-M/M-5-ferrite cable 5m</b><br>Audio connection cable with ferrite core                                | A6300085       |
|  | <b>DVI-D-DL-M/M-3 cable DVI-D 3m</b><br>Single cable for connecting a digital dual-link video channel          | A6300164       |
|  | <b>DVI-D-DL-M/M-5 cable DVI-D 5m</b><br>Single cable for connecting a digital dual-link video channel          | A6300104       |
|  | <b>19" RM-Set-270-1RU</b><br>19" extension for rack mounting devices of 270 mm width within 1RU (44 mm height) | A7000023       |

## MORE VARIANTS

| Description                                                                                                                   | Article number |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Twin-LwLVision(M)-ARU2-PC</b><br>2 computer modules (behind 1 panel) to extend single link DVI signals via fiber multimode | A1110154       |

# 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.: +1-833-928-1976  
Fax: +1-833-928-1976  
E-Mail: [sales.us@gdsys.com](mailto:sales.us@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)