

# DVI-U-CPU-UC 4.0 BASIC

KVM extenders, Article number A2320493



The matrix-compatible KVM extenders of the DVI-CPU series extend keyboard, video, and mouse signals, as well as other peripheral data (e.g., audio and USB), via a dedicated CAT or fiber connection (up to 10,000 m). An extender system consists of a computer module (CPU) and a compatible console module (CON). Computers can be controlled in near real-time – both in extender and matrix applications. The DVI-CPU series supports SingleLink DVI for digital video resolutions up to 1920 x 1200 (60 Hz). Video data is processed pixel-perfectly and offers excellent hand-eye coordination, thanks to bluedec™ – G&D's advanced, multi-stage, lossless compression technology.

## SCOPE OF DELIVERY

| Quantity | Description                   | Article number |
|----------|-------------------------------|----------------|
| 1        | USB-AM/BM-2 cable USB 2m      | A6300113       |
| 1        | DVI-D-DL-M/M-2 cable DVI-D 2m | A6300100       |
| 2        | Audio-M/M-2-ferrite cable 2m  | A6300083       |

## DETAILS

### VIDEO

- bluedec™ – advanced developed multi-stage compression for best video quality and practically latency-free transmission. This method enables pixel-perfect video transmission with efficient bandwidth use.
- The end devices can be flexibly combined with each other, even if they process different video signals (Mix & Match)
- Use of a monitor profile optimized for the computer module (EDID profile)
- Flexible use of the EDID data of the workplace monitor as required
- Resolution up to  
1920 × 1200 @ 60 Hz,  
1280 × 1024 @ 85 Hz

### SIGNALS

- Bidirectional audio signals (stereo)
- Embedded USB 2.0 with Full Speed, transparent, all USB classes

### TRANSMISSION

- The transmission distance is up to 140 meters over CAT

### DEVICE

- Improved security through physical separation between workplaces and computers
- Access to standard interfaces of the computer, with no software installation required
- The devices are compatible with the ControlCenter-Digital and ControlCenter-Compact series (matrix operation) and other end devices for computer and workplace connections (extender operation)
- PowerPack not included in the scope of delivery for Basic variants
- UC variant: computer module with two transmission lines for redundancy
  - These modules can be connected to various counterparts, such as compatible console modules or KVM matrix switches
- 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

### OPERATION FEATURES

- Ready for operation out of the box, no additional configuration required
- Permanent keyboard/mouse emulation ensures a stable system
- Compatibility with special USB-HID input devices
- 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

## EXTENSIONS

### DEVICE

- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply
- Device mounting via RackMount sets, TableMount sets or other mounting tools

### SYSTEM EXTENSION

- You can integrate the matrix-compatible extenders into a complete installation with a ControlCenter-Compact or ControlCenter-Digital, even at a later point in time. This provides you with even greater flexibility through the possibility of distributed access – and the existing components can continue to be used.

## TECHNICAL DATA

|               |                                 |                                                |
|---------------|---------------------------------|------------------------------------------------|
| General       | Product group                   | KVM extenders<br>KVM matrix systems            |
|               | Number of sources               | 1                                              |
| 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 | Redundant KVM transmission available           |
|               | Range                           | 140 m (AWG22)<br>100 m (AWG24)<br>80 m (AWG26) |
|               | KVM matrix system component     | Computer module                                |
|               | Medium                          | CAT5e<br>CAT6<br>CAT7                          |
|               | Data rate                       | 1 Gbit/s                                       |
|               |                                 |                                                |
| Video input   | Number of video channels        | 1                                              |
|               | Format                          | Singlelink DVI                                 |
|               | Colour depth                    | 24 bit                                         |
|               | Pixel rate                      | ca. 25 MHz to ca. 165 MHz                      |
|               | Vertical frequency              | 50 Hz to 180 Hz                                |

|             |                       |                                                                                                                                                                                                                                |
|-------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Horizontal frequency  | 30 kHz to 130 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)<br>Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
| Audio       | Transmission type     | Bidirectional<br>Stereo                                                                                                                                                                                                        |
|             | Resolutions           | 24 bit digital                                                                                                                                                                                                                 |
|             | Sampling rate         | up to 96 kHz                                                                                                                                                                                                                   |
|             | Bandwidth             | 22 kHz                                                                                                                                                                                                                         |
|             | Audio support         | Analog                                                                                                                                                                                                                         |
| USB         | Specification         | USB 2.0                                                                                                                                                                                                                        |
|             | Medium                | Embedded                                                                                                                                                                                                                       |
|             | Transmission rate     | 16 Mbit/s (app. Full Speed)                                                                                                                                                                                                    |
|             | Range                 | max. 140 m                                                                                                                                                                                                                     |
|             | Power (output)        | 500 mA (HighPower)                                                                                                                                                                                                             |
|             | USB classes           | All                                                                                                                                                                                                                            |
| Maintenance | Update via            | Update Wizard (service interface)                                                                                                                                                                                              |
|             | Serviceport settings  | 115200bps (8/N/1)                                                                                                                                                                                                              |
| Housing     | Material              | anodised aluminium                                                                                                                                                                                                             |
|             | Width                 | ca. 105 mm                                                                                                                                                                                                                     |

|                      |                            |                                                                                                                                                                                                                                                                   |
|----------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | Height                     | ca. 26 mm                                                                                                                                                                                                                                                         |
|                      | Depth                      | ca. 104 mm                                                                                                                                                                                                                                                        |
|                      | IP protection class        | IP20                                                                                                                                                                                                                                                              |
|                      | Weight                     | ca. 0.28 kg                                                                                                                                                                                                                                                       |
| Operating conditions | Operating temperature      | 5 °C to 45 °C                                                                                                                                                                                                                                                     |
|                      | Operating air humidity     | 20 % to 80 %, non-condensing                                                                                                                                                                                                                                      |
|                      | Area of application        | Interior                                                                                                                                                                                                                                                          |
|                      | Maximum operating altitude | 3048m above sea level                                                                                                                                                                                                                                             |
|                      | Storage temperature        | -20 °C to 60 °C                                                                                                                                                                                                                                                   |
|                      | Storage air humidity       | 15 % to 85 %, non-condensing                                                                                                                                                                                                                                      |
|                      | MTBF                       | 280000 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              | 12 VDC                                                                                                                                                                                                                                                            |
|                      | Current consumption        | 0.6 A                                                                                                                                                                                                                                                             |

## MORE VARIANTS

| Description                                                                                                                                                                        | Article number |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DVI-CPU 2.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                    | A2320070       |
| <b>DVI-CPU 2.0 incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                          | A2320071       |
| <b>DVI-CPU 3.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                    | A2320387       |
| <b>DVI-CPU 3.0 incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                          | A2320388       |
| <b>DVI-CPU 4.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                    | A2320487       |
| <b>DVI-CPU 4.0 incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                          | A2320488       |
| <b>DVI-CPU-FSC 3.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                | A2320389       |
| <b>DVI-CPU-FSC 3.0 incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                      | A2320390       |
| <b>DVI-CPU-MC2 2.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                | A2320097       |
| <b>DVI-CPU-MC2 2.0 incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                      | A2320072       |
| <b>DVI-CPU-MC2 3.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                | A2320391       |
| <b>DVI-CPU-MC2 3.0 incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                      | A2320392       |
| <b>DVI-CPU-UC 2.0 Basic</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable           | A2320074       |
| <b>DVI-CPU-UC 2.0 incl. PowerPack</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable | A2320075       |
| <b>DVI-CPU-UC 3.0 Basic</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable           | A2320393       |

| Description                                                                                                                                                                            | Article number |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DVI-CPU-UC 3.0 Incl. PowerPack</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable     | A2320394       |
| <b>DVI-CPU-UC 4.0 Basic</b><br>Computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable                        | A2320489       |
| <b>DVI-CPU-UC 4.0 Incl. PowerPack</b><br>Computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable              | A2320490       |
| <b>DVI-CPU-UC-FSC 3.0 Basic</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable           | A2320395       |
| <b>DVI-CPU-UC-FSC 3.0 Incl. PowerPack</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable | A2320396       |
| <b>DVI-U-CPU 3.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                      | A2320397       |
| <b>DVI-U-CPU 3.0 Incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                            | A2320398       |
| <b>DVI-U-CPU 4.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                      | A2320491       |
| <b>DVI-U-CPU 4.0 Incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                            | A2320492       |
| <b>DVI-U-CPU Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                          | A2320126       |
| <b>DVI-U-CPU Incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                                | A2320125       |
| <b>DVI-U-CPU-FSC 3.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                  | A2320399       |
| <b>DVI-U-CPU-FSC 3.0 Incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                        | A2320400       |
| <b>DVI-U-CPU-MC2 3.0 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                  | A2320401       |
| <b>DVI-U-CPU-MC2 3.0 Incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                        | A2320402       |

| Description                                                                                                                                                                              | Article number |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DVI-U-CPU-MC2 Basic</b><br>Computer module to extend DVI signals via CAT cable                                                                                                        | A2320110       |
| <b>DVI-U-CPU-MC2 Incl. PowerPack</b><br>Computer module to extend DVI signals via CAT cable                                                                                              | A2320109       |
| <b>DVI-U-CPU-UC 3.0 Basic</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable               | A2320403       |
| <b>DVI-U-CPU-UC 3.0 Incl. PowerPack</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable     | A2320404       |
| <b>DVI-U-CPU-UC 4.0 Incl. PowerPack</b><br>Computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable              | A2320494       |
| <b>DVI-U-CPU-UC Basic</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable                   | A2320114       |
| <b>DVI-U-CPU-UC Incl. PowerPack</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable         | A2320113       |
| <b>DVI-U-CPU-UC-FSC 3.0 Basic</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable           | A2320405       |
| <b>DVI-U-CPU-UC-FSC 3.0 Incl. PowerPack</b><br>Splitter computer module for transmission of DVI signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable | A2320406       |

# 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)