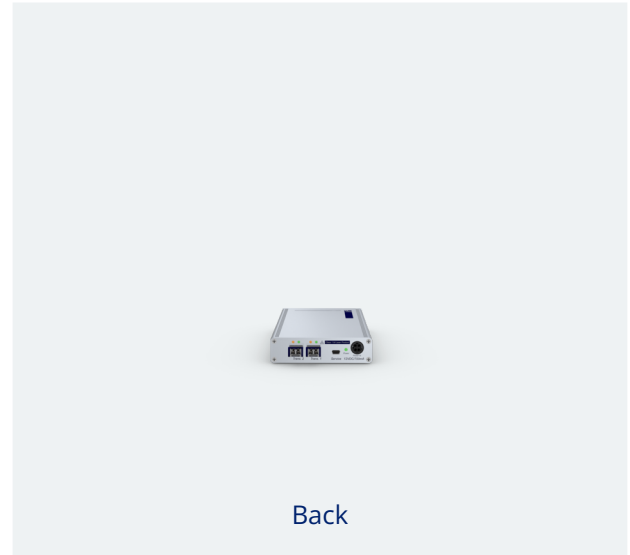
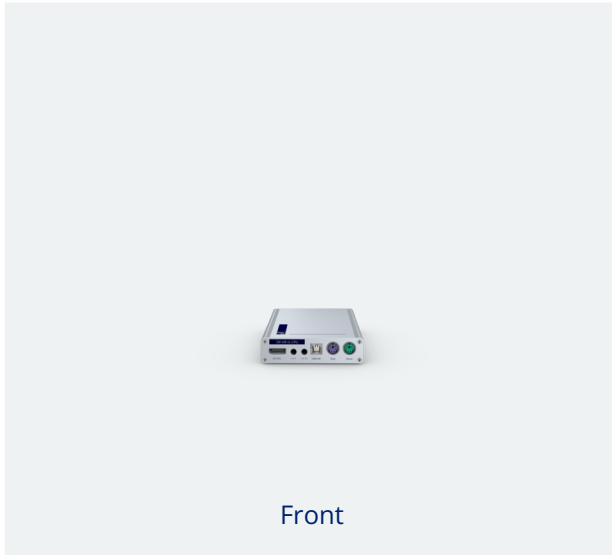


# DP-HR-U-CPU-FIBER(M)-UC 3.0 BASIC

KVM extenders, Article number A2320461



The matrix-compatible KVM extenders of the DP-HR-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 DP-HR-CPU series supports DisplayPort 1.1 for high-resolution video up to 2560 × 1600 (60 Hz) or 4096 × 2160 (30 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        | DP1.4-Cable-M/M-2 SK13357 2m            | A6300173       |
| 2        | Audio-M/M-2-ferrite cable 2m            | A6300083       |
| 1        | Safety instructions flyer - FCC class B | A9100371       |

## 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  
2560 × 1600 @ 60 Hz,  
4096 × 2160 @ 30 Hz

### SIGNALS

- Bidirectional audio signals (stereo)
- Embedded stereo audio (Digital, 2 channel LPCM)
- Embedded USB 2.0 with Full Speed, transparent, all USB classes

### 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
- 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 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       | Brand                           | G&D                                                                                                                                                            |
|               | Product group                   | KVM extenders                                                                                                                                                  |
|               | Product Family                  | MTX-CPU/CON                                                                                                                                                    |
|               | Country of origin               | Germany                                                                                                                                                        |
|               | KVM matrix system component     | Computer module (digital)                                                                                                                                      |
|               | Power Supply                    | no redundancy                                                                                                                                                  |
| Input options | USB mouse                       | yes                                                                                                                                                            |
|               | USB keyboard                    | yes                                                                                                                                                            |
|               | PS/2 mouse                      | yes                                                                                                                                                            |
|               | PS/2 keyboard                   | yes                                                                                                                                                            |
| Transmission  | Number of transmission channels | 1                                                                                                                                                              |
|               | Redundant transmission channels | Redundant KVM transmission available                                                                                                                           |
|               | Range                           | 100 m (62.5/125µm)<br>200 m (50.0/125µm, OM2)<br>400 m (50.0/125µm, OM3)<br>70 m (62.5/125µm)<br>150 m (50.0/125µm)<br>400 m (50.0/125µm, OM4 -<br>4700MHz*km) |
|               | Laser class                     | Class 1                                                                                                                                                        |
|               | Type of interface               | LC-Duplex                                                                                                                                                      |
|               | Wavelength                      | 850 nm                                                                                                                                                         |
|               |                                 |                                                                                                                                                                |

|             |                              |                                                                                                                                                                                                                                    |
|-------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Medium                       | Fiber MM                                                                                                                                                                                                                           |
|             | Data rate                    | 2.5 Gbit/s                                                                                                                                                                                                                         |
| Video input | Quantity                     | 1                                                                                                                                                                                                                                  |
|             | Format                       | DisplayPort 1.1 (HBR)                                                                                                                                                                                                              |
|             | Colour depth                 | 24 bit                                                                                                                                                                                                                             |
|             | Pixel rate ca.               | 25 MPixel/s to 300 MPixel/s                                                                                                                                                                                                        |
|             | Vertical frequency           | 24 Hz to 120 Hz                                                                                                                                                                                                                    |
|             | Horizontal frequency         | 25 kHz to 135 kHz                                                                                                                                                                                                                  |
|             | Exemplary resolutions        | 4096 × 2160 (24 Hz)<br>4096 × 2160 (25 Hz)<br>2048 × 2048 (60 Hz)<br>4096 × 2160 (30 Hz)<br>3840 × 2160 (24 Hz)<br>3840 × 2160 (25 Hz)<br>3840 × 2160 (30 Hz)<br>2560 × 1600 (60 Hz)<br>1920 × 1200 (60 Hz)<br>1920 × 1080 (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)<br>Display Data Channel Command Interface (DDC/CI)<br>Extended Display Identification Data (EDID)                                                                                                       |
| Audio 1     | Transmission type            | Bidirectional<br>Stereo                                                                                                                                                                                                            |
|             | 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 48 kHz                      |
|             | Audio support        | Digital Embedded                  |
|             |                      |                                   |
| USB         | Specification        | USB 2.0                           |
|             | Medium               | Embedded                          |
|             | Transmission rate    | max. 16 Mbit/s (app. Full Speed)  |
|             | Range                | max. 400 m                        |
|             | USB classes          | All                               |
| Maintenance | Update via           | Update Wizard (service interface) |
|             | Serviceport settings | 115200bps (8/N/1)                 |
| Housing     | Material             | Anodised aluminium                |
|             | Active cooling (fan) | no                                |
|             | Width ca.            | 105 mm                            |
|             | Height ca.           | 26 mm                             |
|             | Depth ca.            | 164 mm                            |

|                      |                                            |                                                                                                                                                                                                                                                                   |
|----------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | IP protection class                        | IP20                                                                                                                                                                                                                                                              |
|                      | Weight ca.                                 | 0.44 kg                                                                                                                                                                                                                                                           |
| Operating conditions | Operating environment temperature          | 5 °C to 45 °C                                                                                                                                                                                                                                                     |
|                      | Operating air humidity, non-condensing     | 20 % to 80 %                                                                                                                                                                                                                                                      |
|                      | Area of application                        | Indoor use                                                                                                                                                                                                                                                        |
|                      | Maximum operating altitude above sea level | 3,048 m                                                                                                                                                                                                                                                           |
|                      | Storage environment temperature            | -20 °C to 60 °C                                                                                                                                                                                                                                                   |
|                      | Storage air humidity, non-condensing       | 15 % to 85 %                                                                                                                                                                                                                                                      |
|                      | MTBF                                       | 200,000 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                                   | 1                                                                                                                                                                                                                                                                 |
|                      | Type                                       | External                                                                                                                                                                                                                                                          |
|                      | Input voltage                              | 12 VDC                                                                                                                                                                                                                                                            |
|                      | Current consumption                        | 0.7 A                                                                                                                                                                                                                                                             |
|                      | Power consumption idle                     | 5 W                                                                                                                                                                                                                                                               |
|                      | Power consumption max.                     | 7.4 W                                                                                                                                                                                                                                                             |

|  |                  |                     |
|--|------------------|---------------------|
|  | Heat output idle | 5 W / 17.06 BTU/h   |
|  | Heat output max. | 7.4 W / 25.25 BTU/h |

## ACCESSORY PRODUCTS

| Image                                                                               | Description                                                                                                                       | Article number |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------|
|    | <b>USB-Service-2 cable 2m</b><br>Cable for system updates and configuration                                                       | A6200103       |
|    | <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>DP-Cable-M/M-3 cable DP 3m</b><br>Single cable to connect a DisplayPort video channel                                          | A6300109       |
|    | <b>DP1.4-Cable-M/M-3 SK13358 3m</b><br>Single cable to connect a DisplayPort video channel (DP1.4)                                | A6300174       |
|  | <b>DP1.4-Cable-M/M-5 SK13359 5m</b><br>Single cable to connect a DisplayPort video channel (DP1.4)                                | A6300175       |
|  | <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>PowerPack 12 Type 3 12V/2A</b><br>24W power supply with 2m powercable                                                          | A4110013       |
|  | <b>CaseMount-Set-105-26 mounting bracket</b><br>Screws & brackets for mounting devices with dimensions 105x26mm in DeviceCarriers | A7000020       |

## MORE VARIANTS

| Description                                                                                                                                                                                                      | Article number |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DP-HR-CPU-Fiber(M) 3.0 Basic</b><br>Computer module to extend DisplayPort signals via fiber multimode                                                                                                         | A2320413       |
| <b>DP-HR-CPU-Fiber(M)-DH 3.0 Basic</b><br>Dual head computer module (fiber multimode) to extend 2 DisplayPort signals using 1 transmission line                                                                  | A2320415       |
| <b>DP-HR-CPU-Fiber(M)-DH-UC 3.0 Basic</b><br>Dual head splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode   | A2320417       |
| <b>DP-HR-CPU-Fiber(M)-DH-UC Basic</b><br>Dual head splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode       | A2320209       |
| <b>DP-HR-CPU-Fiber(M)-MC2 3.0 Basic</b><br>Computer module to extend DisplayPort signals via fiber multimode                                                                                                     | A2320419       |
| <b>DP-HR-CPU-Fiber(M)-UC 3.0 Basic</b><br>Splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode                | A2320421       |
| <b>DP-HR-U-CPU-Fiber(M) 3.0 Basic</b><br>Computer module to extend DisplayPort signals via fiber multimode                                                                                                       | A2320453       |
| <b>DP-HR-U-CPU-Fiber(M)-DH 3.0 Basic</b><br>Dual head computer module (fiber multimode) to extend 2 DisplayPort signals using 1 transmission line                                                                | A2320455       |
| <b>DP-HR-U-CPU-Fiber(M)-DH-UC 3.0 Basic</b><br>Dual head splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode | A2320457       |
| <b>DP-HR-U-CPU-Fiber(M)-DH-UC Basic</b><br>Dual head splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode     | A2320185       |

# 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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