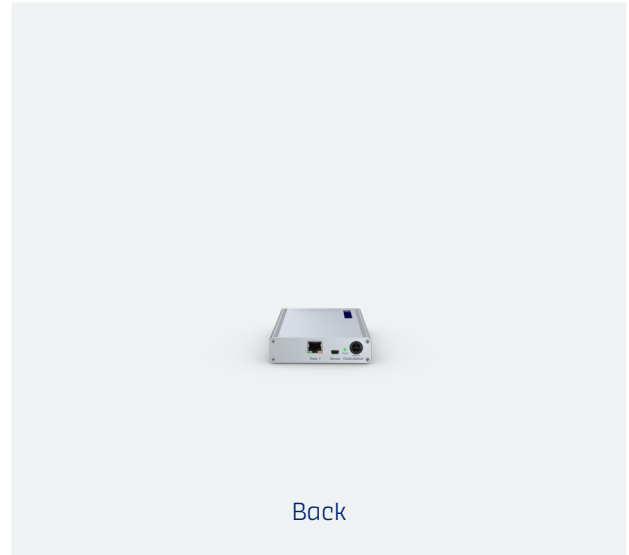
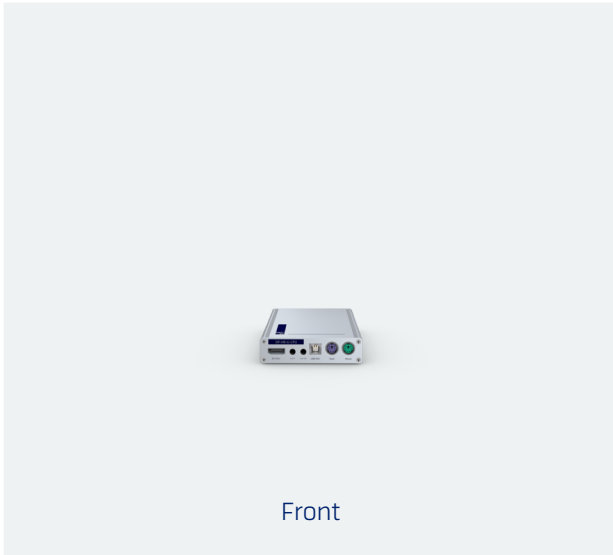


# DP-HR-U-CPU 3.0 INCL. POWERPACK

KVM extenders, Article number A2320448



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        | PowerCable-2 Standard cable 2m          | A6300057       |
| 1        | Netzteil 12V / 2,08AFSP025-D12C14 FSP   | Z0005926       |
| 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 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 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                                  |
|               | Product Family                  | MTX-CPU/CON                                    |
|               | Number of sources               | 1  |
|               | 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 | no redundant KVM transmission                  |
|               | Range                           | 140 m (AWG22)<br>100 m (AWG24)<br>80 m (AWG26) |
|               | Medium                          | CAT5e<br>CAT6<br>CAT7                          |
|               | Data rate                       | 1 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. 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.                              | 164 mm                            |
|                      | IP protection class                    | IP20                              |
|                      | Weight ca.                             | 0.39 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                               | UKCA compliant (see downloads)<br>TAA compliant (see downloads)<br>RoHS compliant (see downloads)<br>WEEE (reg. no. DE30763240)<br>REACH compliant (see downloads)<br>CE compliant (see downloads)<br>FCC compliant (see manual)<br>EAC compliant (see downloads)<br>IEC/EN 60945 - Maritime (EMC & Environmental) |
| Power supply | Quantity                                   | 1  |
|              | Type                                       | External   |
|              | Input voltage                              | 12 VDC   |
|              | Current consumption                        | 0.6 A  |
|              | Power consumption idle                     | 3.6 W  |
|              | Power consumption max.                     | 6 W  |
|              | Heat output idle                           | 3.6 W  |
|              | Heat output max.                           | 6 W  |

## 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>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 3.0 Basic</b><br>Computer module to extend DisplayPort signals via CAT cable   | A2320407       |
| <b>DP-HR-CPU 3.0 incl. PowerPack</b><br>Computer module to extend DisplayPort signals via CAT cable   | A2320408       |
| <b>DP-HR-CPU-DH 3.0 Basic</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line  | A2320409       |
| <b>DP-HR-CPU-DH 3.0 incl. PowerPack</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line  | A2320410       |
| <b>DP-HR-CPU-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 CAT cable           | A2320411       |
| <b>DP-HR-CPU-DH-UC 3.0 incl. PowerPack</b><br>Dual head splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable | A2320412       |
| <b>DP-HR-CPU-MC2 3.0 Basic</b><br>Computer module to extend DisplayPort signals via CAT cable   | A2320443       |
| <b>DP-HR-CPU-MC2 3.0 incl. PowerPack</b><br>Computer module to extend DisplayPort signals via CAT cable   | A2320444       |
| <b>DP-HR-CPU-UC 3.0 Basic</b><br>Splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable                        | A2320445       |
| <b>DP-HR-CPU-UC 3.0 incl. PowerPack</b><br>Splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable              | A2320446       |
| <b>DP-HR-U-CPU 3.0 Basic</b><br>Computer module to extend DisplayPort signals via CAT cable   | A2320447       |
| <b>DP-HR-U-CPU-DH 3.0 Basic</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line  | A2320449       |
| <b>DP-HR-U-CPU-DH 3.0 incl. PowerPack</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line  | A2320450       |

| Description   | Article number |
|---|----------------|
| <b>DP-HR-U-CPU-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 CAT cable           | A2320451       |
| <b>DP-HR-U-CPU-DH-UC 3.0 incl. PowerPack</b><br>Dual head splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable | A2320452       |
| <b>DP-HR-U-CPU-MC2 3.0 Basic</b><br>Computer module to extend DisplayPort signals via CAT cable   | A2320483       |
| <b>DP-HR-U-CPU-MC2 3.0 incl. PowerPack</b><br>Computer module to extend DisplayPort signals via CAT cable   | A2320484       |
| <b>DP-HR-U-CPU-UC 3.0 Basic</b><br>Splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable                        | A2320485       |
| <b>DP-HR-U-CPU-UC 3.0 incl. PowerPack</b><br>Splitter computer module for transmission of DisplayPort signals to 2 different counterpart stations (extenders or matrix switches) via CAT cable              | A2320486       |

# 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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