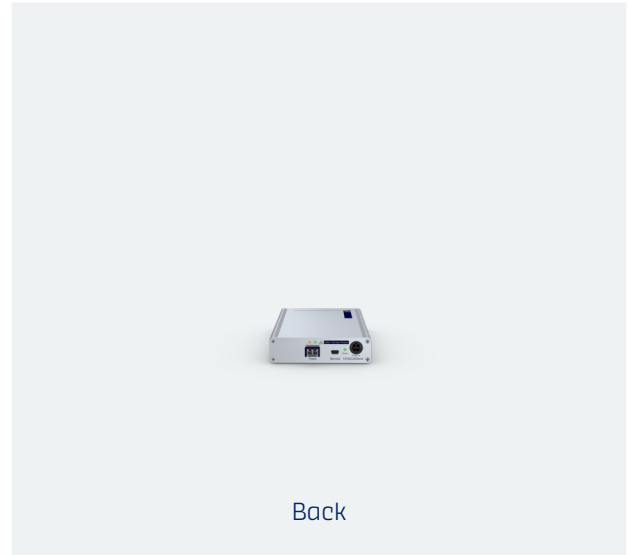


# HDM-CPU-FIBER(M) BASIC

KVM extenders, Article number A2320251



Front



Back

The matrix-compatible KVM extenders of the HDM-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 HDM-CPU series supports HDMI 1.4 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       |
| 2        | Audio-M/M-2-ferrite cable 2m             | A6300083       |
| 1        | HDM-Cable-M/M-2 S1 cable HDM-SupraLok 2m | A6300141       |
| 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)

### 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       | 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                           | 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                       | HDMI 1.4                                                                                                                                                                                                    |
|             | 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>4096 × 2160 (30 Hz)<br>3840 × 2160 (24 Hz)<br>3840 × 2160 (25 Hz)<br>3840 × 2160 (30 Hz)<br>2048 × 2160 (60 Hz)<br>2048 × 2048 (60 Hz)<br>2560 × 1600 (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)                                                                                                                               |
| 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                  |
| 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.                                 | 0.4 kg                            |
| Operating conditions | Operating 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 temperature                        | -20 °C to 60 °C                   |
|                      | Storage air humidity, non-condensing       | 15 % to 85 %                      |

|              |                        |                                                                                                                                                                                                                                                                   |
|--------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | MTBF                   | 280,000 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    | 0.6 A                                                                                                                                                                                                                                                             |
|              | Power consumption max. | 7.2 W                                                                                                                                                                                                                                                             |
|              | Heat output max.       | 6.2 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>HDM-Cable-M/M-3 S1 cable HDM-SupraLok 3m</b><br>Single cable to connect a HDMI video channel with 1 SupraLok connector         | A6300139       |
|    | <b>HDM-Cable-M/M-5 S1 cable HDM-SupraLok 5m</b><br>Single cable to connect a HDMI video channel with 1 SupraLok connector         | A6300140       |
|  | <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>HDM-CPU-Fiber(M) Incl. PowerPack</b><br>Computer module to extend HDMI signals via fiber multimode                                                                                                         | A2320250       |
| <b>HDM-CPU-Fiber(M)-DH-UC Basic</b><br>Dual head splitter computer module for transmission of HDMI signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode             | A2320253       |
| <b>HDM-CPU-Fiber(M)-DH-UC Incl. PowerPack</b><br>Dual head splitter computer module for transmission of HDMI signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode   | A2320252       |
| <b>HDM-U-CPU-Fiber(M) Basic</b><br>Computer module to extend HDMI signals via fiber multimode                                                                                                                 | A2320235       |
| <b>HDM-U-CPU-Fiber(M) Incl. PowerPack</b><br>Computer module to extend HDMI signals via fiber multimode                                                                                                       | A2320234       |
| <b>HDM-U-CPU-Fiber(M)-DH-UC Basic</b><br>Dual head splitter computer module for transmission of HDMI signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode           | A2320237       |
| <b>HDM-U-CPU-Fiber(M)-DH-UC Incl. PowerPack</b><br>Dual head splitter computer module for transmission of HDMI signals to 2 different counterpart stations (extenders or matrix switches) via fiber multimode | A2320236       |

# 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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