

# VISIONXS-CPU-F(M)-DVI-I-DT 2.0

KVM extenders, Article number A1111051



## SCOPE OF DELIVERY

| Quantity | Description                                                     | Article number |
|----------|-----------------------------------------------------------------|----------------|
| 1        | DVI-D-DL-M/M-2 cable DVI-D 2m                                   | A6300100       |
| 1        | VGA-M/DVI-A-M-2 cable VGA-DVI 2m                                | A6300053       |
| 1        | TypeC-Service-Cable-M/M-2, 2m, USB Type-A / Type-C              | A6200112       |
| 1        | RS232-M/F-2 cable RS232 2m                                      | A6300023       |
| 2        | Audio-M/M-2-ferrite cable 2m                                    | A6300083       |
| 1        | Audio adapter cable, 1x 3.5mm jack plug to 2x 3.5mm jack socket | A3110017       |
| 1        | Safety instructions flyer - FCC class B                         | A9100371       |
| 1        | PowerCable-2 Standard cable 2m                                  | A6300057       |

## 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)
- EDID data utilization from the workplace monitor
- Flexible EDID profile options for optimized monitor settings
- Resolution up to  
1920 × 1200 @ 60 Hz,  
1280 × 1024 @ 85 Hz

### SIGNALS

- Transparent bidirectional audio signals (stereo)
- Transparent RS232 (max. 115,200 bps)
- GenericUSB support for USB classes HID (Human Interface Device), SmartCard and mass storage
- The product allows the use of a GenericUSB device via a console module. For this, both the used console module and the used computer module must support the use of a GenericUSB device.

### 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
- New enclosure design with improved cooling, optimized interface placement, and robust surface finishing – for higher reliability and long service life even in demanding environments
- Compact design for space-saving installation within a VisionXS 2.0 DeviceCarrier (1 or 3 RU)
- 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
- DT variant:
  - Power supply via internal power supply unit
  - In combination with an external power supply, a redundant power supply can be established

- RS232 is provided as standard
- 2C/2F variant (comparable to UC/CON-2): Two transmission paths (CAT or Fiber) for redundancy
  - Computer modules can connect to various counterparts, such as compatible console modules or KVM matrix switches
  - Console modules can connect to different counterparts, such as compatible computer modules or KVM matrix switches, with switching controlled via hotkey or automatically depending on configuration
  - 2C/2F variants are never available with U2, since the second transmission interface is used for transmitting USB 2.0 data.
- LC variant: Optional local console on the CPU module including all video channels
  - In addition to the remote workplace, a full-featured local access point is available, providing direct access to all video and control channels.
  - Exclusive or concurrent operation  
Allows simultaneous use by optional local and remote workplaces. Input on one side temporarily locks the other. A key combination activates exclusive mode instantly; another releases shared access. The lock duration is configurable.
- Extended USB input side with TypeC and separate USB K/M interface – enables the optional physical separation of keyboard/mouse signals and USB data stream for enhanced security.

## WARRANTY

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

## FEATURES

### SECURITY FEATURES

- Bootloader, operating system, and firmware form a "Trusted Computing Platform" with automatic integrity checks during system startup
- Integrated Trusted Platform Module (TPM) protects all access and configuration data from being spied on or tampered with by third parties
- Console modules do not store security-relevant information such as login credentials, which could be extracted in the event of device loss
- Early detection of security incidents or unusual activities through continuous monitoring via Syslog, monitoring, and SNMP
- Comprehensive rights management and user administration, allowing precise control over which user can access which resources
- Option for activatable access protection (default operating mode in matrix systems), in which authentication is required before accessing computer sources
- Support for external directory services (Active Directory, Radius, LDAP) to meet company security policies
- To comply with individual password policies and improve security, password complexity can be configured system-wide
- Configurable login options, such as displaying terms of use or setting the maximum acceptable number of failed login attempts, can enhance system security
- Auto Backup Function: Automates backups at user-defined intervals and replaces manual intervention – ensuring reliable, timely data protection without the need for continuous monitoring
- Freeze function: If the video signal is lost, the last displayed image is frozen and highlighted with a colored frame and timer
- 2-Factor-Authentication (2FA) – is integrated by default in KVM extenders and enhances security by requiring a second, possession-based factor during user authentication:
  - The traditional password authentication is combined with a time-limited, single-use code (Time-Based-One-Time-Password - TOTP)
  - You can choose between using the internal authentication server provided in the device or an external directory service
  - Authenticator apps or hardware token can be used
  - This additional layer of protection prevents unauthorized access and ensures the highest level of security, particularly in sensitive IT environments

### 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
- Configuration and update via the multilingual HTML5 web interface “Config Panel 21” (Java-free)
- 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 an external USB Type-C PD power pack or via the G&D MultiPower-12-TypeC, which ensures centralized and redundant power supply.
- Device mounting via RackMount sets, TableMount sets, G&D 19” DeviceCarrier for VisionXS 2.0 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.

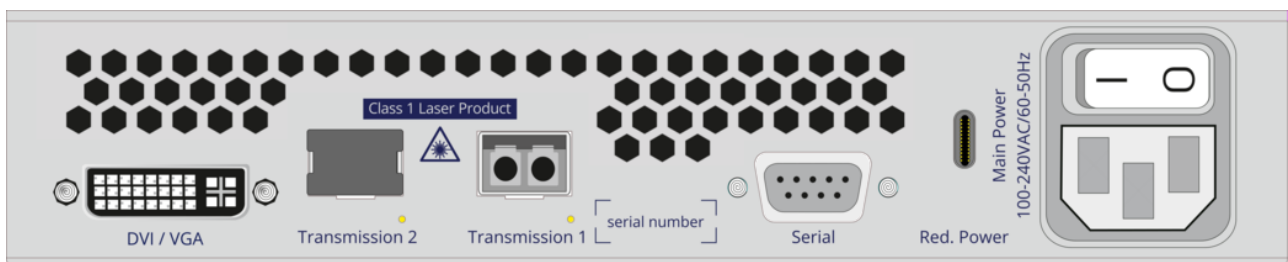
## PANELS AND CONNECTORS

### FRONT



| Aperture designation | Design           | Description                                                                |
|----------------------|------------------|----------------------------------------------------------------------------|
| Service              | USB-C socket     | Connection for service purpose                                             |
| Network              | RJ45 socket      | Port for IP network                                                        |
| Audio                | 3,5-mm jack plug | Connection to computer - Audio                                             |
| USB                  | USB-C socket     | Connection to computer - USB                                               |
| K/M only             | USB-C socket     | Optional connection to computer - USB, only for keyboard and mouse signals |

### BACK



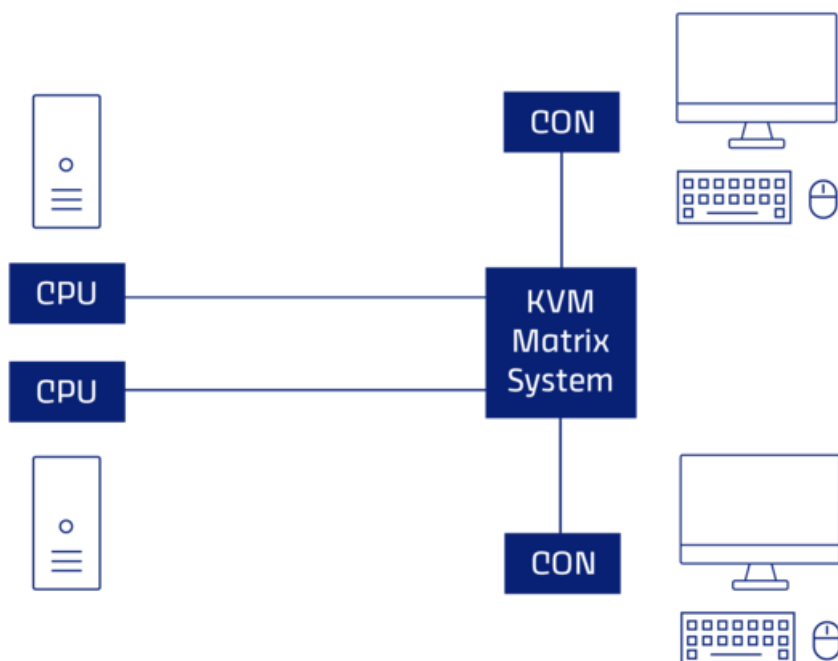
No interfaces available

## SCHEMATIC REPRESENTATION

### Dedicated extender operation



### Dedicated matrix operation



## TECHNICAL DATA

|              |                                 |                                                                                                                                                                |
|--------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General      | Brand                           | G&D                                                                                                                                                            |
|              | Product group                   | KVM extenders                                                                                                                                                  |
|              | Product Family                  | VisionXS 2.0                                                                                                                                                   |
|              | Country of origin               | Germany                                                                                                                                                        |
|              | KVM matrix system component     | Computer module (digital)                                                                                                                                      |
|              | Power Supply                    | Redundancy without load balancing                                                                                                                              |
| 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                          | Singlelink DVI-I                                                                                                                                               |
|              | Colour depth                    | 24 bit                                                                                                                                                         |



|       |                                |                                                                                                                                                                         |
|-------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Pixel rate ca.                 | 25 MHz to 165 MHz                                                                                                                                                       |
|       | Vertical frequency             | 24 Hz to 120 Hz                                                                                                                                                         |
|       | Horizontal frequency           | 25 kHz to 135 kHz                                                                                                                                                       |
|       | Exemplary resolutions          | 640 × 480 (60 Hz)<br>1600 × 1200 (60 Hz)<br>1920 × 1080 (60 Hz)<br>1920 × 1200 (60 Hz)                                                                                  |
|       | General Notes                  | Both analog and digital video resolutions are supported.<br>Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
|       | Supported industry standards   | Display Data Channel (DDC)<br>Enhanced Display Data Channel (E-DDC)<br>Display Data Channel Command Interface (DDC/CI)                                                  |
| Audio | Transmission type              | Stereo<br>Transparent<br>Bidirectional                                                                                                                                  |
|       | Resolutions                    | 24 bit digital                                                                                                                                                          |
|       | Sampling rate                  | up to 96 kHz                                                                                                                                                            |
|       | Bandwidth                      | 22 kHz                                                                                                                                                                  |
|       | Audio support                  | Analog                                                                                                                                                                  |
| USB   | Separate USB transmission port | no                                                                                                                                                                      |
|       | Specification                  | USB 2.0                                                                                                                                                                 |
|       | GenericUSB support             | 1 device                                                                                                                                                                |
|       | Medium                         | Embedded                                                                                                                                                                |

|             |                          |                                                                       |
|-------------|--------------------------|-----------------------------------------------------------------------|
|             | Transmission rate        | max. 25 Mbit/s (Full Speed)                                           |
|             | USB classes              | Mass Storage (MSC / UMS)<br>Human Interface Device (HID)<br>SmartCard |
| Serial      | Standard                 | RS232                                                                 |
|             | Transparent transmission | yes                                                                   |
|             | Data rate                | 115,200 bps                                                           |
|             | Signals                  | TxD<br>RxD<br>RTS<br>CTS<br>GND<br>5V                                 |
| Network     | Quantity                 | 1                                                                     |
|             | Medium                   | CAT5<br>CAT6<br>CAT7                                                  |
|             | Data rate                | 10 Mbit/s<br>100 Mbit/s                                               |
| Maintenance | Update via               | ConfigPanel (Network)                                                 |
|             | Serviceport settings     | 460800bps (8/N/1)                                                     |
| Housing     | Material                 | Sheet steel, powder-coated                                            |
|             | Active cooling (fan)     | yes                                                                   |
|             | Width ca.                | 215 mm                                                                |
|             | Height ca.               | 44 mm                                                                 |
|             | Depth ca.                | 222 mm                                                                |

|                      |                                            |                                                                                                                                                                                                                                  |
|----------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating conditions | IP protection class                        | IP20                                                                                                                                                                                                                             |
|                      | 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                               | RoHS compliant (see downloads)<br>REACH compliant (see downloads)<br>FCC compliant (see manual)<br>CE compliant (see downloads)<br>UKCA compliant (see downloads)<br>TAA compliant (see downloads)<br>WEEE (reg. no. DE30763240) |
| Power supply 1       | Quantity                                   | 1                                                                                                                                                                                                                                |
|                      | Type                                       | Internal                                                                                                                                                                                                                         |
|                      | Input voltage                              | 100-240 VAC                                                                                                                                                                                                                      |
|                      | Input frequency                            | 60-50 Hz                                                                                                                                                                                                                         |
| Power supply 2       | Quantity                                   | 1                                                                                                                                                                                                                                |
|                      | Type                                       | External                                                                                                                                                                                                                         |

## MORE VARIANTS

| Description                                                                                                           | Article number |
|-----------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CPU-F(M)-DVI-I 2.0</b><br>Computer module for the transmission of DVI-I signals via fiber multimode       | A1111057       |
| <b>VisionXS-CPU-F(M)-DVI-I-U 2.0</b><br>Computer module for the transmission of DVI-I signals via fiber multimode     | A1111039       |
| <b>VisionXS-CPU-F(M)-DVI-I-U-DT 2.0</b><br>Computer module for the transmission of DVI-I signals via fiber multimode  | A1111033       |
| <b>VisionXS-CPU-F(M)-DVI-I-U2 2.0</b><br>Computer module for the transmission of DVI-I signals via fiber multimode    | A1111045       |
| <b>VisionXS-CPU-F(M)-DVI-I-U2-DT 2.0</b><br>Computer module for the transmission of DVI-I signals via fiber multimode | A1111042       |

# 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)