

**Guntermann & Drunck GmbH Systementwicklung**

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G&D Product data sheet - 29. Oct 2025 [VisionXS-CPU-F\(M\)-DVI-I-U](#)

# **VisionXS-CPU-F(M)-DVI-I-U**

**KVM extenders, Article number A1110661**

Front

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Back

The matrix-compatible KVM extenders of the VisionXS-DVI-I 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 VisionXS-DVI-I series supports SingleLink DVI-I for analog and digital video resolutions up to  $1920 \times 1200$  (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        | DVI-D-DL-M/M-2 cable DVI-D 2m    | A6300100       |
| 1        | VGA-M/DVI-A-M-2 cable VGA-DVI 2m | A6300053       |
| 1        | USB-AM/BM-2 cable USB 2m         | A6300113       |

## 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

- 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.
- 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
- Compact design for space-saving installation within a VisionXS 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: Optional redundant power supply via an internal power unit for high reliability
- Fanless variant: fanless model

## 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

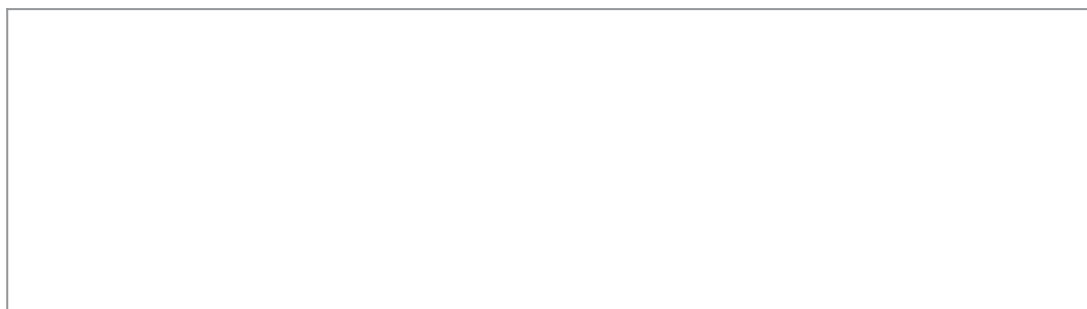
- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply
- Device mounting via G&D 19" DeviceCarrier for VisionXS (1 or 3 RU)

## System extension

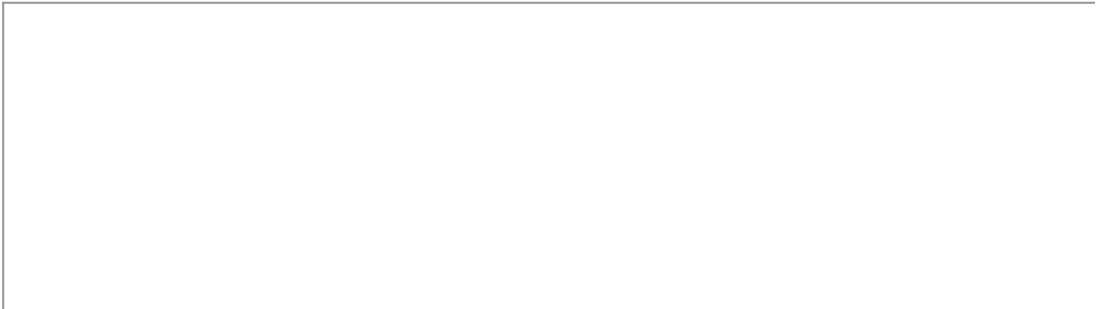
- Transm. Redundancy Option (comparable to UC/CON-2): Devices are prepared for transmission redundancy without additional hardware and can be activated via software feature key.
  - Computer modules can connect to various counterparts, such as compatible console modules or KVM matrix switches
  - Console 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
  - U2 variants do not support the Transm. Redundancy Option as the 2nd transmission interface is used for the transmission of USB 2.0 data
- 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.

# Interfaces

## Front



| Aperture designation | Design           | Description                    |
|----------------------|------------------|--------------------------------|
| USB CPU              | USB-B socket 2.0 | Connection to computer - USB   |
| DVI / VGA CPU        | DVI-I socket     | Connection to computer - Video |



| Aperture designation | Design            | Description                                                            |
|----------------------|-------------------|------------------------------------------------------------------------|
| Transmission 1       | LC-Duplex socket  | Data transmission to console module or matrix switch (FIBER)           |
| Transmission 2       | LC-Duplex socket  | Data transmission to console module or matrix switch redundant (FIBER) |
| Service              | Micro-USB socket  | Port for service purposes                                              |
| Network              | RJ45 socket       | Port for IP network                                                    |
| Power                | Mini-DIN 4 socket | Power supply DC                                                        |

**Technical data**

|                     |                                 |                                      |
|---------------------|---------------------------------|--------------------------------------|
| <b>General</b>      | Product group                   | KVM extenders                        |
|                     | Product Family                  | VisionXS                             |
|                     | KVM matrix system component     | Computer module (digital)            |
|                     | Power Supply                    | no redundancy                        |
|                     | Number of transmission channels | 1                                    |
|                     | Redundant transmission channels | optional redundant KVM transmission  |
| <b>Transmission</b> | Range                           | 100 m (62.5/125µm)                   |
|                     |                                 | 200 m (50.0/125µm, OM2)              |
|                     |                                 | 400 m (50.0/125µm, OM3)              |
|                     |                                 | 70 m (62.5/125µm)                    |
|                     |                                 | 150 m (50.0/125µm)                   |
|                     |                                 | 400 m (50.0/125µm, OM4 - 4700MHz*km) |
| <b>Video input</b>  | Laser class                     | Class 1                              |
|                     | Type of interface               | LC-Duplex                            |
|                     | Wavelength                      | 850 nm                               |
|                     | Medium                          | Fiber MM                             |
|                     | Data rate                       | 2.5 Gbit/s                           |
|                     | Quantity                        | 1                                    |
|                     | Format                          | Singlelink DVI                       |
|                     |                                 |                                      |

|                             |                                        |                                                                                                                        |
|-----------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|                             | 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                          | 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) |
|                             | Separate USB transmission port         | no                                                                                                                     |
|                             | Specification                          | USB 2.0                                                                                                                |
|                             | GenericUSB support                     | 1 device                                                                                                               |
| <b>USB 1</b>                | Medium                                 | Embedded                                                                                                               |
|                             | Transmission rate                      | max. 25 Mbit/s (Full Speed)                                                                                            |
|                             | USB classes                            | Mass Storage (MSC / UMS)<br>Human Interface Device (HID)<br>SmartCard                                                  |
|                             | Specification                          | USB 2.0                                                                                                                |
|                             | Medium                                 | Embedded                                                                                                               |
| <b>USB 2</b>                | Transmission rate                      | max. 16 Mbit/s (app. Full Speed)                                                                                       |
|                             | Range                                  | max. 400 m                                                                                                             |
|                             | USB classes                            | All                                                                                                                    |
|                             | Quantity                               | 1                                                                                                                      |
| <b>Network</b>              | Medium                                 | CAT5<br>CAT6<br>CAT7                                                                                                   |
|                             | Data rate                              | 10 Mbit/s<br>100 Mbit/s                                                                                                |
|                             | Update via                             | ConfigPanel (Network)                                                                                                  |
| <b>Maintenance</b>          | Serviceport settings                   | 115200bps (8/N/1)                                                                                                      |
|                             | Material                               | anodised aluminium                                                                                                     |
|                             | Width ca.                              | 109 mm                                                                                                                 |
| <b>Housing</b>              | Height ca.                             | 31 mm                                                                                                                  |
|                             | Depth ca.                              | 184 mm                                                                                                                 |
|                             | IP protection class                    | IP20                                                                                                                   |
|                             | Operating temperature                  | 5 °C to 45 °C                                                                                                          |
| <b>Operating conditions</b> | 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                                       | 200,000 h at 25°C                                                                                                                                                                                                                                                 |
|                     | Conformities                               | 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)<br>CE compliant (see downloads)<br>UKCA compliant (see downloads) |
|                     | Quantity                                   | 1                                                                                                                                                                                                                                                                 |
| <b>Power supply</b> | Type                                       | External                                                                                                                                                                                                                                                          |
|                     | Input voltage                              | 12 VDC                                                                                                                                                                                                                                                            |
|                     | Current consumption                        | 1 A                                                                                                                                                                                                                                                               |

## more variants

| Description                                                                                            | Article number |
|--------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CPU-F(M)-DVI-I</b><br>Computer module to extend DVI-I signals via fiber multimode          | A1110653       |
| <b>VisionXS-CPU-F(M)-DVI-I-A</b><br>Computer module to extend DVI-I signals via fiber multimode        | A1110654       |
| <b>VisionXS-CPU-F(M)-DVI-I-A-U</b><br>Computer module to extend DVI-I signals via fiber multimode      | A1110658       |
| <b>VisionXS-CPU-F(M)-DVI-I-A-U2</b><br>Computer module to extend DVI-I signals via fiber multimode     | A1110659       |
| <b>VisionXS-CPU-F(M)-DVI-I-AR-DT</b><br>Computer module to extend DVI-I signals via fiber multimode    | A1110655       |
| <b>VisionXS-CPU-F(M)-DVI-I-AR-U-DT</b><br>Computer module to extend DVI-I signals via fiber multimode  | A1110657       |
| <b>VisionXS-CPU-F(M)-DVI-I-AR-U2-DT</b><br>Computer module to extend DVI-I signals via fiber multimode | A1110656       |
| <b>VisionXS-CPU-F(M)-DVI-I-DT</b><br>Computer module to extend DVI-I signals via fiber multimode       | A1110660       |
| <b>VisionXS-CPU-F(M)-DVI-I-U-DT</b><br>Computer module to extend DVI-I signals via fiber multimode     | A1110664       |
| <b>VisionXS-CPU-F(M)-DVI-I-U2</b><br>Computer module to extend DVI-I signals via fiber multimode       | A1110662       |
| <b>VisionXS-CPU-F(M)-DVI-I-U2-DT</b><br>Computer module to extend DVI-I signals via fiber multimode    | A1110663       |

# 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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