

# VISIONXS-CON-C-DVI-I-AR-U-DT

KVM extenders, Article number A1120557



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 x 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        | PowerCable-2 Standard cable 2m          | A6300057       |
| 1        | Safety instructions flyer - FCC class B | A9100371       |
| 1        | Power supply usage flyer                | A9100409       |

## 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 audio signals (stereo, analog)
- 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.
- 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
- 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

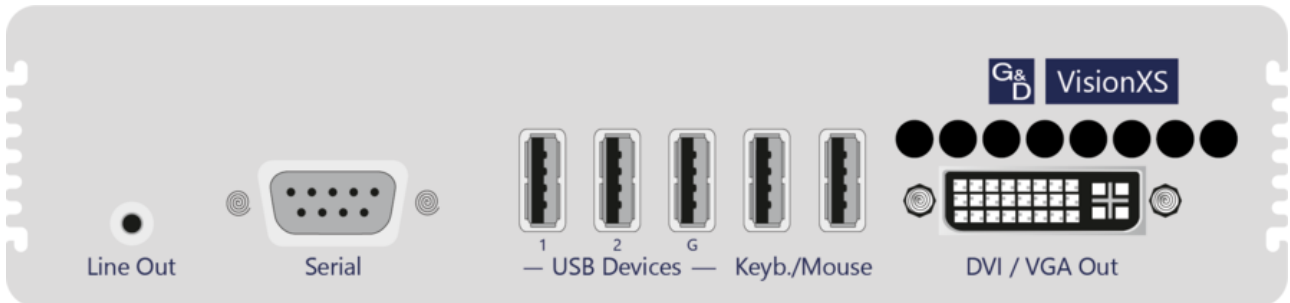
- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply
- Device mounting via G&D 19” DeviceCarrier for VisionXS (1 or 3 RU)

### 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                        |
|----------------------|----------------------|------------------------------------|
| Line Out             | Jack socket - 3,5 mm | Port for speaker/headset           |
| Serial               | D-Sub9 jack          | Port for serial devices            |
| USB Devices - 1      | USB-A socket 2.0     | Port for USB devices (transparent) |
| USB Devices - 2      | USB-A socket 2.0     | Port for USB devices (transparent) |
| USB Devices - G      | USB-A socket 2.0     | Port for USB devices (Generic)     |
| Keyb./Mouse          | USB-A socket 2.0     | Port for keyboard and mouse        |
| DVI / VGA Out        | DVI-I socket         | Port for monitor                   |

BACK



| Aperture designation | Design            | Description   |
|----------------------|-------------------|---|
| Transmission 1       | RJ45 socket       | Data transmission to computer module or matrix switch (CAT)           |
| Transmission 2       | RJ45 socket       | Data transmission to computer module or matrix switch redundant (CAT) |
| Service              | Micro-USB socket  | Port for service purposes   |
| Network              | RJ45 socket       | Port for IP network   |
| Main Power           | Mini-DIN 4 socket | Power supply DC   |
| Red. Power           | IEC plug 320 C14  | Power supply AC redundant   |

## TECHNICAL DATA

|               |                                 |  |
|---------------|---------------------------------|--|
| General       | Brand                           | G&D  |
|               | Product group                   | KVM extenders                                  |
|               | Product Family                  | VisionXS                                       |
|               | Country of origin               | Germany  |
|               | Number of workstations          | 1  |
|               | KVM matrix system component     | Console module (digital)                       |
|               | Power Supply                    | Redundancy without load balancing              |
| Input options | USB mouse                       | yes  |
|               | USB keyboard                    | yes  |
| Transmission  | Number of transmission channels | 1  |
|               | Redundant transmission channels | optional 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 output  | 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          | 1920 x 1200 (60 Hz)<br>1920 x 1080 (60 Hz)<br>1600 x 1200 (60 Hz)<br>1280 x 1024 (85 Hz)<br>1280 x 1024 (60 Hz) |
|       | General Notes                  | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.     |
|       | Supported industry standards   | Display Data Channel Command Interface (DDC/CI)<br>Display Data Channel (DDC)                                   |
| Audio | Transmission type              | Stereo<br>Transparent   |
|       | Resolutions                    | 24 bit digital  |
|       | Sampling rate                  | up to 96 kHz  |
|       | Bandwidth                      | 22 kHz  |
|       | Audio support                  | Analog  |
| USB 1 | 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 |
| USB 2                    | 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   |
|                          | Serial               | Standard  |
| 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 | 115200bps (8/N/1)   |

|                      |  |   |
|----------------------|--|---|
| Housing              | Material                                   | Anodised aluminium  |
|                      | Active cooling (fan)                       | yes   |
|                      | Width ca.                                  | 170 mm  |
|                      | Height ca.                                 | 40 mm   |
|                      | Depth ca.                                  | 184 mm  |
|                      | IP protection class                        | IP20  |
|                      | Weight ca.                                 | 1.24 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                               | 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) |
| Power supply 1       | Quantity                                   | 1   |

|                |                     |             |
|----------------|---------------------|-------------|
|                | Type                | External    |
|                | Input voltage       | 12 VDC      |
|                | Current consumption | 1.9 A       |
| Power supply 2 | Quantity            | 1           |
|                | Type                | Internal    |
|                | Input voltage       | 100-240 VAC |
|                | Input frequency     | 60-50 Hz    |
|                | Current consumption | 0.5-0.3 A   |

## MORE VARIANTS

| Description  | Article number |
|--|----------------|
| <b>VisionXS-CON-C-DVI-I</b><br>Console module to receive DVI-I signals via CAT cable               | A1120554       |
| <b>VisionXS-CON-C-DVI-I-AR-DT</b><br>Console module to receive DVI-I signals via CAT cable         | A1120555       |
| <b>VisionXS-CON-C-DVI-I-AR-DT fanless</b><br>Console module to receive DVI-I signals via CAT cable | A1120499       |
| <b>VisionXS-CON-C-DVI-I-AR-U2-DT</b><br>Console module to receive DVI-I signals via CAT cable      | A1120556       |
| <b>VisionXS-CON-C-DVI-I-DT</b><br>Console module to receive DVI-I signals via CAT cable            | A1120558       |
| <b>VisionXS-CON-C-DVI-I-U</b><br>Console module to receive DVI-I signals via CAT cable             | A1120559       |
| <b>VisionXS-CON-C-DVI-I-U-DT</b><br>Console module to receive DVI-I signals via CAT cable          | A1120562       |
| <b>VisionXS-CON-C-DVI-I-U2</b><br>Console module to receive DVI-I signals via CAT cable            | A1120560       |
| <b>VisionXS-CON-C-DVI-I-U2-DT</b><br>Console module to receive DVI-I signals via CAT cable         | A1120561       |

# 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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