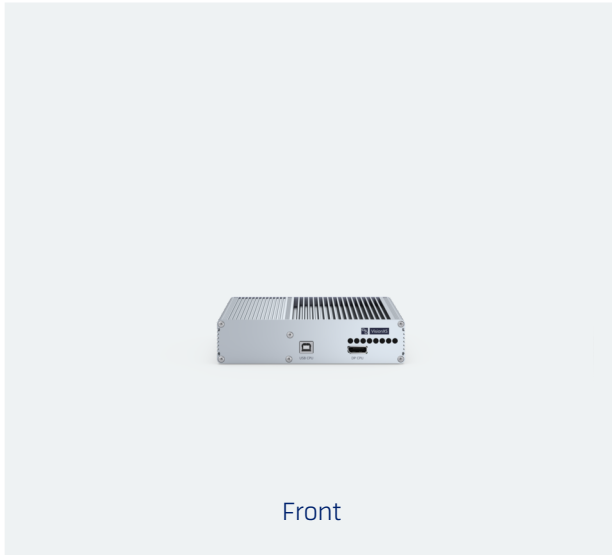
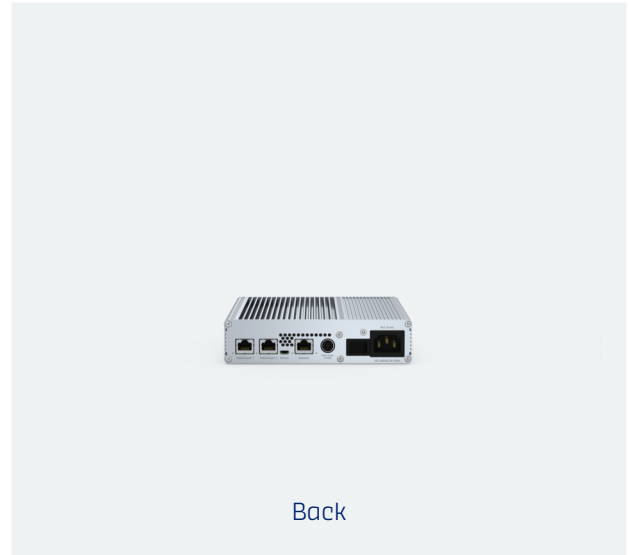


# VISIONXS-CPU-C-DP-HR-U-DT

KVM extenders, Article number A1110279



Front



Back

The matrix-compatible KVM extenders of the VisionXS-DP-HR 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-DP-HR 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        | DP1.4-Cable-M/M-2 SK13357 2m            | A6300173       |
| 1        | USB-AM/BM-2 cable USB 2m                | A6300113       |
| 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  
2560 × 1600 @ 60 Hz,  
4096 × 2160 @ 30 Hz

### SIGNALS

- Embedded stereo audio (DisplayPort Digital, 2 channel LPCM, AC3, DTS, sampling rate up to 192 kHz)
- 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

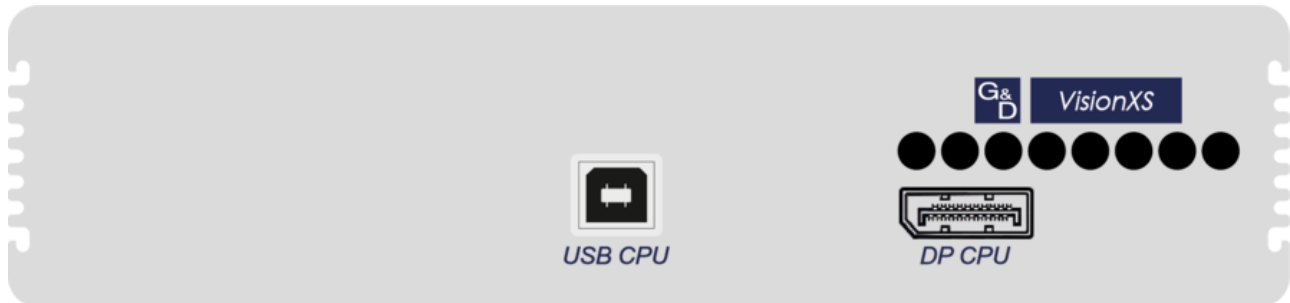
- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply
- Device mounting via G&D 19" DeviceCarrier for VisionXS (1 or 3 RU)

### 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.

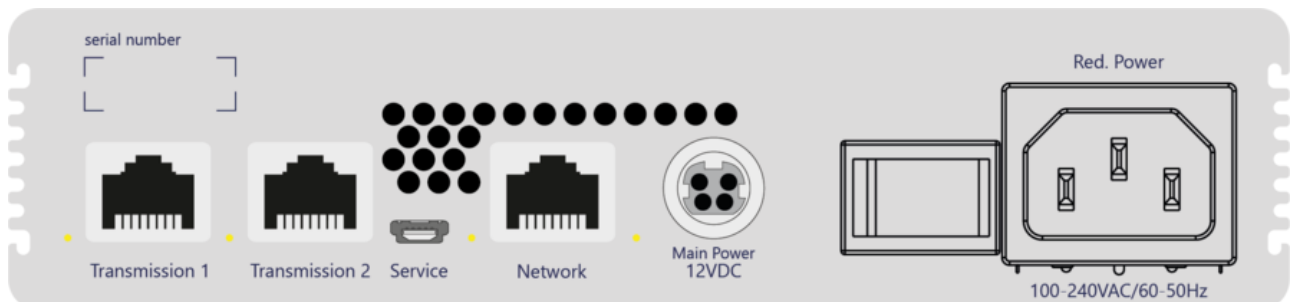
## INTERFACES

### FRONT



| Aperture designation | Design             | Description                    |
|----------------------|--------------------|--------------------------------|
| USB CPU              | USB-B socket 2.0   | Connection to computer - USB   |
| DP CPU               | DisplayPort socket | Connection to computer - Video |

### BACK



| Aperture designation | Design            | Description                                                          |
|----------------------|-------------------|----------------------------------------------------------------------|
| Transmission 1       | RJ45 socket       | Data transmission to console module or matrix switch (CAT)           |
| Transmission 2       | RJ45 socket       | Data transmission to console 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      | Product group                   | KVM extenders                                  |
|              | Product Family                  | VisionXS                                       |
|              | KVM matrix system component     | Computer module (digital)                      |
|              | Power Supply                    | Redundancy without load balancing              |
| 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 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 185 kHz                              |

|       |                                |                                                                                                                                                                                                                                    |
|-------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Exemplary resolutions          | 4096 × 2160 (30 Hz)<br>4096 × 2160 (25 Hz)<br>4096 × 2160 (24 Hz)<br>3840 × 2160 (30 Hz)<br>3840 × 2160 (25 Hz)<br>3840 × 2160 (24 Hz)<br>2560 × 1600 (60 Hz)<br>2048 × 2048 (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 Command Interface (DDC/CI)<br>Extended Display Identification Data (EDID)                                                                                                                                     |
| Audio | Transmission type              | 2-channel LPCM<br>Stereo<br>DTS<br>AC3                                                                                                                                                                                             |
|       | Resolutions                    | 24 bit<br>20 bit<br>16 bit                                                                                                                                                                                                         |
|       | Sampling rate                  | up to 192 kHz                                                                                                                                                                                                                      |
|       | Audio support                  | Digital Embedded                                                                                                                                                                                                                   |
| 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 2       | USB classes          | Mass Storage (MSC / UMS)<br>Human Interface Device (HID)<br>SmartCard |
|             | 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                                                                   |
| 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                                                    |
|             | Width ca.            | 170 mm                                                                |
|             | Height ca.           | 40 mm                                                                 |
|             | Depth ca.            | 184 mm                                                                |
|             | IP protection class  | IP20                                                                  |
|             | Weight ca.           | 1.23 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                                       | 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 A                                                                                                                                                                                                                                                               |
|                      | Power consumption idle                     | 8.5 W                                                                                                                                                                                                                                                             |
|                      | Power consumption max.                     | 11.1 W                                                                                                                                                                                                                                                            |
|                      | Heat output idle                           | 8.5 W                                                                                                                                                                                                                                                             |
|                      | Heat output max.                           | 11.1 W                                                                                                                                                                                                                                                            |

|                |                        |               |
|----------------|------------------------|---------------|
| Power supply 2 | Quantity               | 1             |
|                | Type                   | Internal      |
|                | Input voltage          | 100-240 VAC   |
|                | Input frequency        | 60-50 Hz      |
|                | Current consumption    | 0.4-0.2 A     |
|                | Power consumption idle | 9.93-9.45 W   |
|                | Power consumption max. | 12.62-12.26 W |
|                | Heat output idle       | 9.93-9.45 W   |
|                | Heat output max.       | 12.62-12.26 W |
|                |                        |               |

## MORE VARIANTS

| Description                                                                                                                               | Article number |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CPU-C-DP-HR</b><br>Computer module to extend DisplayPort signals via CAT cable                                                | A1110272       |
| <b>VisionXS-CPU-C-DP-HR-A</b><br>Computer module to extend DisplayPort signals via CAT cable                                              | A1110273       |
| <b>VisionXS-CPU-C-DP-HR-A-U</b><br>Computer module to extend DisplayPort signals via CAT cable                                            | A1110274       |
| <b>VisionXS-CPU-C-DP-HR-A-U2</b><br>Computer module to extend DisplayPort signals via CAT cable                                           | A1110578       |
| <b>VisionXS-CPU-C-DP-HR-AR-DT</b><br>Computer module to extend DisplayPort signals via CAT cable                                          | A1110276       |
| <b>VisionXS-CPU-C-DP-HR-AR-U-DT</b><br>Computer module to extend DisplayPort signals via CAT cable                                        | A1110277       |
| <b>VisionXS-CPU-C-DP-HR-AR-U2-DT</b><br>Computer module to extend DisplayPort signals via CAT cable                                       | A1110577       |
| <b>VisionXS-CPU-C-DP-HR-DH</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line         | A1110512       |
| <b>VisionXS-CPU-C-DP-HR-DH-A</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line       | A1110515       |
| <b>VisionXS-CPU-C-DP-HR-DH-A-U</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line     | A1110513       |
| <b>VisionXS-CPU-C-DP-HR-DH-A-U2</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line    | A1110580       |
| <b>VisionXS-CPU-C-DP-HR-DH-AR-DT</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line   | A1110517       |
| <b>VisionXS-CPU-C-DP-HR-DH-AR-U-DT</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line | A1110516       |

| Description                                                                                                                                | Article number |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CPU-C-DP-HR-DH-AR-U2-DT</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line | A1110579       |
| <b>VisionXS-CPU-C-DP-HR-DH-DT</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line       | A1110519       |
| <b>VisionXS-CPU-C-DP-HR-DH-U</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line        | A1110514       |
| <b>VisionXS-CPU-C-DP-HR-DH-U-DT</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line     | A1110518       |
| <b>VisionXS-CPU-C-DP-HR-DH-U2</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line       | A1110581       |
| <b>VisionXS-CPU-C-DP-HR-DH-U2-DT</b><br>Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line    | A1110582       |
| <b>VisionXS-CPU-C-DP-HR-DT</b><br>Computer module to extend DisplayPort signals via CAT cable                                              | A1110278       |
| <b>VisionXS-CPU-C-DP-HR-U</b><br>Computer module to extend DisplayPort signals via CAT cable                                               | A1110275       |
| <b>VisionXS-CPU-C-DP-HR-U2</b><br>Computer module to extend DisplayPort signals via CAT cable                                              | A1110583       |
| <b>VisionXS-CPU-C-DP-HR-U2-DT</b><br>Computer module to extend DisplayPort signals via CAT cable                                           | A1110584       |

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## 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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