

**G&D North America Inc.**

4540 Kendrick Plaza | Dr #100 | Houston, TX 77032 | T +1-346-620-4362 | [sales.us@gdsys.com](mailto:sales.us@gdsys.com) | [www.gdsys.com](http://www.gdsys.com)

G&D Product data sheet - Oct 29, 2025 [VisionXS-CPU-C-DP-HR-DH-A-U](#)

# **VisionXS-CPU-C-DP-HR-DH-A-U**

**KVM extenders, Article number A1110513**

Front

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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  $2560 \times 1600$  (60 Hz) or  $4096 \times 2160$  (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 |
|----------|------------------------------|----------------|
| 2        | DP1.4-Cable-M/M-2 SK13357 2m | A6300173       |
| 1        | USB-AM/BM-2 cable USB 2m     | A6300113       |
| 1        | Audio-M/M-2-ferrite cable 2m | A6300083       |

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

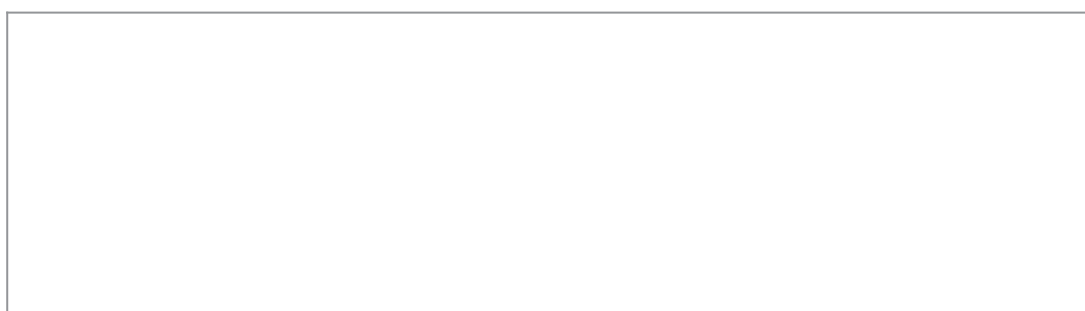
- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply
- Device mounting via G&D 19" DeviceCarrier for VisionXS (1 or 3 RU)

### 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.

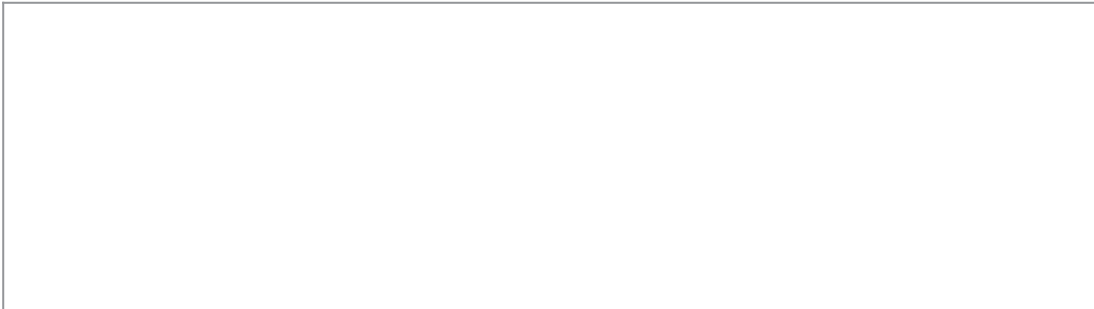
## Panels and connectors

### Front



| Aperture designation | Design               | Description                      |
|----------------------|----------------------|----------------------------------|
| USB CPU              | USB-B socket 2.0     | Connection to computer - USB 2.0 |
| Line In              | Jack socket - 3,5 mm | Connection to computer - Audio   |
| DP CPU 1             | DisplayPort socket   | Connection to computer - Video   |
| DP CPU 2             | 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                                                  |
| Power                | Mini-DIN 4 socket | Power supply DC                                                      |

Technical data

|              |                                 |                                     |
|--------------|---------------------------------|-------------------------------------|
| General      | 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 |
| Transmission | Range                           | 140 m (AWG22)                       |
|              |                                 | 100 m (AWG24)                       |
|              |                                 | 80 m (AWG26)                        |
|              |                                 | CAT5e                               |
| Video input  | Medium                          | CAT6                                |
|              |                                 | CAT7                                |
|              |                                 |                                     |
|              | Data rate                       | 1 Gbit/s                            |
|              | Quantity                        | 2                                   |
|              | 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)                                                                                         |
|                |                                | 4096 × 2160 (25 Hz)                                                                                         |
|                |                                | 4096 × 2160 (24 Hz)                                                                                         |
|                |                                | 3840 × 2160 (30 Hz)                                                                                         |
|                |                                | 3840 × 2160 (25 Hz)                                                                                         |
|                |                                | 3840 × 2160 (24 Hz)                                                                                         |
|                |                                | 2560 × 1600 (60 Hz)                                                                                         |
|                |                                | 2048 × 2048 (60 Hz)                                                                                         |
|                |                                | 1920 × 1200 (60 Hz)                                                                                         |
|                |                                | 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)              |
| <b>Audio 1</b> | Transmission type              | 2-channel LPCM                                                                                              |
|                |                                | Stereo                                                                                                      |
|                |                                | DTS                                                                                                         |
|                |                                | AC3                                                                                                         |
|                |                                | 24 bit                                                                                                      |
|                | Resolutions                    | 20 bit                                                                                                      |
|                |                                | 16 bit                                                                                                      |
|                |                                |                                                                                                             |
|                |                                |                                                                                                             |
|                |                                |                                                                                                             |
|                | Sampling rate                  | up to 192 kHz                                                                                               |
|                | Audio support                  | Digital Embedded                                                                                            |
|                | Transmission type              | Stereo                                                                                                      |
|                |                                | Transparent                                                                                                 |
|                | Resolutions                    | 24 bit digital                                                                                              |
| <b>Audio 2</b> | Sampling rate                  | up to 96 kHz                                                                                                |
|                | Bandwidth                      | 22 kHz                                                                                                      |
|                | Audio support                  | Analog                                                                                                      |
|                | Separate USB transmission port | no                                                                                                          |
|                | Specification                  | USB 2.0                                                                                                     |
| <b>USB 1</b>   | GenericUSB support             | 1 device                                                                                                    |
|                | Medium                         | Embedded                                                                                                    |
|                | Transmission rate              | max. 25 Mbit/s (Full Speed)                                                                                 |
|                | USB classes                    | Mass Storage (MSC / UMS)                                                                                    |
|                |                                | Human Interface Device (HID)                                                                                |
|                |                                | SmartCard                                                                                                   |
|                | Specification                  | USB 2.0                                                                                                     |
|                | Medium                         | Embedded                                                                                                    |
|                | Transmission rate              | max. 16 Mbit/s (app. Full Speed)                                                                            |
|                | Range                          | max. 140 m                                                                                                  |
| <b>USB 2</b>   | Power (output)                 | 500 mA (HighPower)                                                                                          |
|                | USB classes                    | All                                                                                                         |
|                | Quantity                       | 1                                                                                                           |
|                | <b>Network</b>                 | CAT5                                                                                                        |
|                |                                | CAT6                                                                                                        |

|                             |                                            |                                 |
|-----------------------------|--------------------------------------------|---------------------------------|
|                             |                                            | CAT7                            |
|                             | Data rate                                  | 10 Mbit/s<br>100 Mbit/s         |
| <b>Maintenance</b>          | Update via                                 | ConfigPanel (Network)           |
|                             | Serviceport settings                       | 115200bps (8/N/1)               |
|                             | Material                                   | anodised aluminium              |
| <b>Housing</b>              | Width ca.                                  | 109 mm                          |
|                             | Height ca.                                 | 31 mm                           |
|                             | Depth ca.                                  | 184 mm                          |
|                             | IP protection class                        | IP20                            |
|                             | Weight ca.                                 | 0.69 kg                         |
| <b>Operating conditions</b> | 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)      |
|                             |                                            | TAA compliant (see downloads)   |
|                             |                                            | EAC compliant (see downloads)   |
|                             |                                            | RoHS compliant (see downloads)  |
|                             |                                            | WEEE (reg. no. DE30763240)      |
|                             |                                            | REACH compliant (see downloads) |
|                             |                                            | CE compliant (see downloads)    |
|                             |                                            | UKCA compliant (see downloads)  |
| <b>Power supply</b>         | Quantity                                   | 1                               |
|                             | Type                                       | External                        |
|                             | Input voltage                              | 12 VDC                          |
|                             | Current consumption                        | 1.1 A                           |
|                             | Power consumption idle                     | 8.8 W                           |
|                             | Power consumption max.                     | 11.5 W                          |
|                             | Heat output idle                           | 8.8 W                           |
|                             | Heat output max.                           | 11.5 W                          |

## more variants

|                             | Description                                                 | Article number |
|-----------------------------|-------------------------------------------------------------|----------------|
| <b>VisionXS-CPU-C-DP-HR</b> | Computer module to extend DisplayPort signals via CAT cable | A1110272       |



| Description                                                                                     | Article<br>number |
|-------------------------------------------------------------------------------------------------|-------------------|
| <b>VisionXS-CPU-C-DP-HR-A</b>                                                                   | A1110273          |
| Computer module to extend DisplayPort signals via CAT cable                                     |                   |
| <b>VisionXS-CPU-C-DP-HR-A-U</b>                                                                 | A1110274          |
| Computer module to extend DisplayPort signals via CAT cable                                     |                   |
| <b>VisionXS-CPU-C-DP-HR-A-U2</b>                                                                | A1110578          |
| Computer module to extend DisplayPort signals via CAT cable                                     |                   |
| <b>VisionXS-CPU-C-DP-HR-AR-DT</b>                                                               | A1110276          |
| Computer module to extend DisplayPort signals via CAT cable                                     |                   |
| <b>VisionXS-CPU-C-DP-HR-AR-U-DT</b>                                                             | A1110277          |
| Computer module to extend DisplayPort signals via CAT cable                                     |                   |
| <b>VisionXS-CPU-C-DP-HR-AR-U2-DT</b>                                                            | A1110577          |
| Computer module to extend DisplayPort signals via CAT cable                                     |                   |
| <b>VisionXS-CPU-C-DP-HR-DH</b>                                                                  |                   |
| 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>                                                                |                   |
| Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line | A1110515          |
| <b>VisionXS-CPU-C-DP-HR-DH-A-U2</b>                                                             |                   |
| 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>                                                            |                   |
| 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>                                                          |                   |
| Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line | A1110516          |
| <b>VisionXS-CPU-C-DP-HR-DH-AR-U2-DT</b>                                                         |                   |
| 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>                                                               |                   |
| 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>                                                                |                   |
| 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>                                                             |                   |
| 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>                                                               |                   |
| 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>                                                            |                   |
| Dual head computer module (CAT cable) to extend 2 DisplayPort signals using 1 transmission line | A1110582          |

| Description                                                 | Article<br>number |
|-------------------------------------------------------------|-------------------|
| <b>VisionXS-CPU-C-DP-HR-DT</b>                              |                   |
| Computer module to extend DisplayPort signals via CAT cable | A1110278          |
| <b>VisionXS-CPU-C-DP-HR-U</b>                               |                   |
| Computer module to extend DisplayPort signals via CAT cable | A1110275          |
| <b>VisionXS-CPU-C-DP-HR-U-DT</b>                            |                   |
| Computer module to extend DisplayPort signals via CAT cable | A1110279          |
| <b>VisionXS-CPU-C-DP-HR-U2</b>                              |                   |
| Computer module to extend DisplayPort signals via CAT cable | A1110583          |
| <b>VisionXS-CPU-C-DP-HR-U2-DT</b>                           |                   |
| Computer module to extend DisplayPort signals via CAT cable | A1110584          |

## 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)