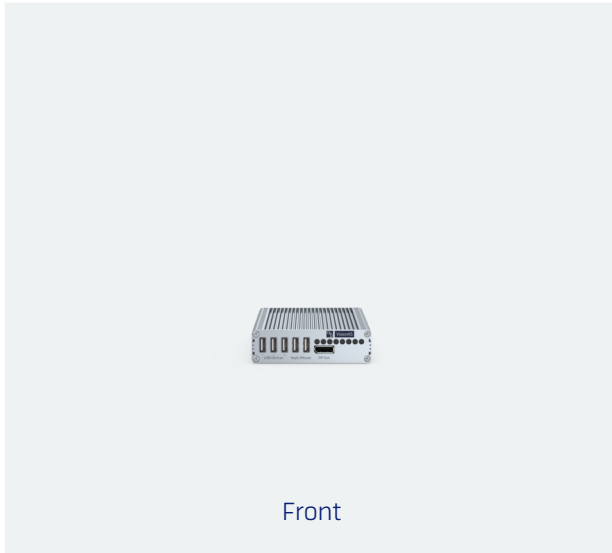
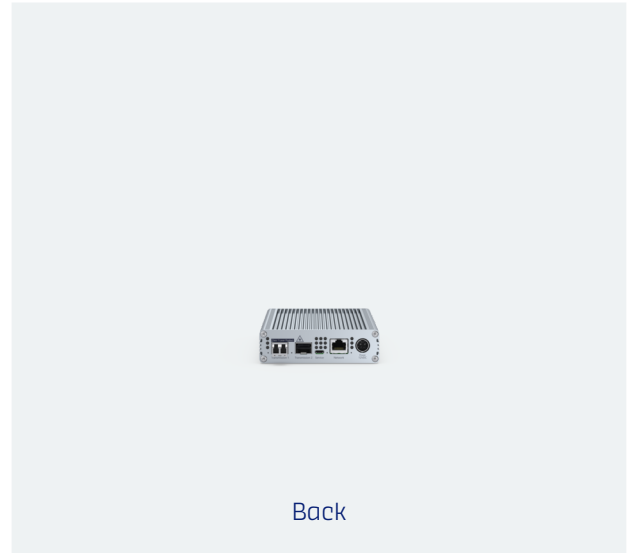


# VISIONXS-CON-F(M)-DP-HR

KVM extenders, Article number A1120406



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.

## 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.

### 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.

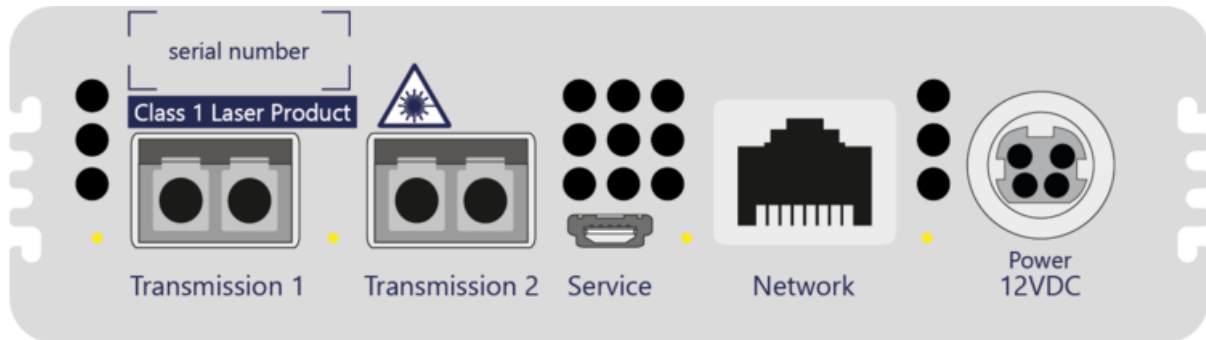
## INTERFACES

### FRONT



| Aperture designation | Design             | Description                    |
|----------------------|--------------------|--------------------------------|
| USB Devices - 1      | USB-A socket 2.0   | Port for USB devices (Generic) |
| USB Devices - 2      | USB-A socket 2.0   | Port for USB devices (Generic) |
| 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    |
| DP Out               | DisplayPort socket | Port for monitor               |

BACK



| Aperture designation | Design            | Description                                                             |
|----------------------|-------------------|-------------------------------------------------------------------------|
| Transmission 1       | LC-Duplex socket  | Data transmission to computer module or matrix switch (FIBER)           |
| Transmission 2       | LC-Duplex socket  | Data transmission to computer 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

|               |                                 |                                                                                                                                                                |
|---------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General       | Product group                   | KVM extenders                                                                                                                                                  |
|               | Product Family                  | VisionXS                                                                                                                                                       |
|               | 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                           | 100 m (62.5/125µm)<br>200 m (50.0/125µm, OM2)<br>400 m (50.0/125µm, OM3)<br>70 m (62.5/125µm)<br>150 m (50.0/125µm)<br>400 m (50.0/125µm, OM4 -<br>4700MHz*km) |
|               | Laser class                     | Class 1                                                                                                                                                        |
|               | Type of interface               | LC-Duplex                                                                                                                                                      |
|               | Wavelength                      | 850 nm                                                                                                                                                         |
|               | Medium                          | Fiber MM                                                                                                                                                       |
|               | Data rate                       | 2.5 Gbit/s                                                                                                                                                     |
|               |                                 |                                                                                                                                                                |
| Video output  | 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.                                                                                                                        |
| Audio | Supported industry standards   | Display Data Channel Command Interface (DDC/CI)<br>Extended Display Identification Data (EDID)                                                                                                                                     |
|       | 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   | 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 |
| 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.                              | 109 mm                                                                |
|                      | Height ca.                             | 31 mm                                                                 |
|                      | Depth ca.                              | 184 mm                                                                |
|                      | IP protection class                    | IP20                                                                  |
|                      | Weight ca.                             | 0.69 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 | Quantity                                   | 1                                                                                                                                                                                                                                                                 |
|              | Type                                       | External                                                                                                                                                                                                                                                          |
|              | Input voltage                              | 12 VDC                                                                                                                                                                                                                                                            |
|              | Current consumption                        | 1.9 A                                                                                                                                                                                                                                                             |
|              | Power consumption idle                     | 9.1 W                                                                                                                                                                                                                                                             |
|              | Power consumption max.                     | 21.2 W                                                                                                                                                                                                                                                            |
|              | Heat output idle                           | 9.1 W                                                                                                                                                                                                                                                             |
|              | Heat output max.                           | 11.05 W                                                                                                                                                                                                                                                           |

## MORE VARIANTS

| Description                                                                                                                                              | Article number |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CON-F(M)-DP-HR-AR-DT</b><br>Console module to receive DisplayPort signals via fiber multimode                                                | A1120407       |
| <b>VisionXS-CON-F(M)-DP-HR-AR-DT fanless</b><br>Console module to receive DisplayPort signals via fiber multimode                                        | A1120500       |
| <b>VisionXS-CON-F(M)-DP-HR-AR-U-DT</b><br>Console module to receive DisplayPort signals via fiber multimode                                              | A1120408       |
| <b>VisionXS-CON-F(M)-DP-HR-AR-U2-DT</b><br>Console module to receive DisplayPort signals via fiber multimode                                             | A1120524       |
| <b>VisionXS-CON-F(M)-DP-HR-DH</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line               | A1120466       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-AR-DT</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line         | A1120469       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-AR-DT fanless</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line | A1120501       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-AR-U-DT</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line       | A1120468       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-AR-U2-DT</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line      | A1120525       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-DT</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line            | A1120471       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-U</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line             | A1120467       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-U-DT</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line          | A1120470       |
| <b>VisionXS-CON-F(M)-DP-HR-DH-U2</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line            | A1120526       |

| Description                                                                                                                                      | Article number |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CON-F(M)-DP-HR-DH-U2-DT</b><br>Dual head console module (fiber multimode) to receive 2 DisplayPort signals using 1 transmission line | A1120527       |
| <b>VisionXS-CON-F(M)-DP-HR-DT</b><br>Console module to receive DisplayPort signals via fiber multimode                                           | A1120409       |
| <b>VisionXS-CON-F(M)-DP-HR-U</b><br>Console module to receive DisplayPort signals via fiber multimode                                            | A1120411       |
| <b>VisionXS-CON-F(M)-DP-HR-U-DT</b><br>Console module to receive DisplayPort signals via fiber multimode                                         | A1120410       |
| <b>VisionXS-CON-F(M)-DP-HR-U2</b><br>Console module to receive DisplayPort signals via fiber multimode                                           | A1120528       |
| <b>VisionXS-CON-F(M)-DP-HR-U2-DT</b><br>Console module to receive DisplayPort signals via fiber multimode                                        | A1120529       |

# 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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