

## VISIONXS-CON-F(M)-MC2-DP-UHR-DT 2.0

KVM extenders, Article number A1120788



## SCOPE OF DELIVERY

| Quantity | Description                                                     | Article number |
|----------|-----------------------------------------------------------------|----------------|
| 1        | PowerCable-2 Standard cable 2m                                  | A6300057       |
| 1        | Audio adapter cable, 1x 3.5mm jack plug to 2x 3.5mm jack socket | A3110017       |
| 1        | Safety instructions flyer - FCC class B                         | A9100371       |
| 1        | 19" RM-Set-VXS2.0-442_MP12TypeC-1RU                             | A7000072       |

## 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  
5120 × 2160 @ 50 Hz,  
5120 × 1440 @ 60 Hz,  
4096 × 2160 @ 60 Hz,  
2560 × 1440 @ 144 Hz,  
1920 × 1080 @ 240 Hz

### SIGNALS

- Embedded stereo audio (DisplayPort Digital, 2 channel LPCM, AC3, DTS)
- Transparent bidirectional audio signals (stereo)
- 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.

### 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
- New enclosure design with improved cooling, optimized interface placement, and robust surface finishing – for higher reliability and long service life even in demanding environments
- Compact design for space-saving installation within a VisionXS 2.0 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:
  - Power supply via internal power supply unit
  - In combination with an external power supply, a redundant power supply can be established
  - RS232 is provided as standard
- 2C/2F variant (comparable to UC/CON-2): Two transmission paths (CAT or Fiber) for redundancy
  - 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
  - 2C/2F variants are never available with U2, since the second transmission interface is used for transmitting USB 2.0 data.
- Extended USB input side with TypeC and separate USB K/M interface – enables the optional physical separation of keyboard/mouse signals and USB data stream for enhanced security.

## 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

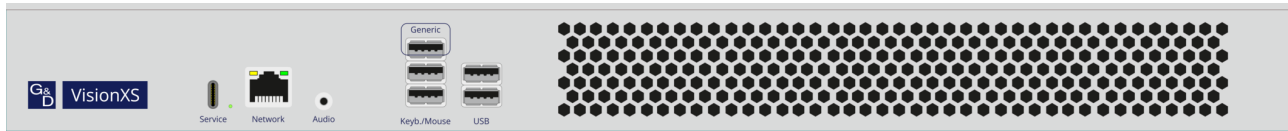
- External power supply via an external USB Type-C PD power pack or via the G&D MultiPower-12-TypeC, which ensures centralized and redundant power supply.
- Device mounting via RackMount sets, TableMount sets, G&D 19" DeviceCarrier for VisionXS 2.0 or other mounting tools

### SYSTEM EXTENSION

- 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.

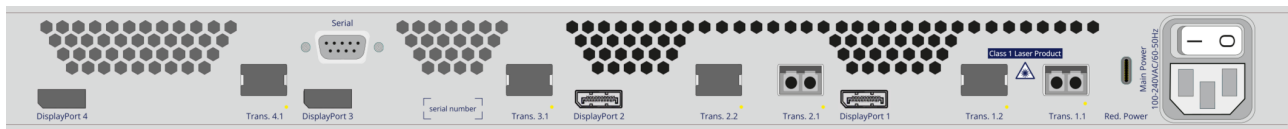
## INTERFACES

### FRONT



| Aperture designation | Design           | Description                                                          |
|----------------------|------------------|----------------------------------------------------------------------|
| Service              | USB-C socket     | Connection for service purpose                                       |
| Network              | RJ45 socket      | Port for IP network                                                  |
| Audio                | 3,5-mm jack plug | Connection for speakers and, via adapter, microphone or audio source |
| Keyb./Mouse          | USB A socket     | Port for keyboard and mouse                                          |
| Generic              | USB A socket     | Port for USB devices (Generic)                                       |
| USB                  | USB A socket     | Port for USB devices (Generic)                                       |

### BACK



| Aperture designation | Design             | Description                                                   |
|----------------------|--------------------|---------------------------------------------------------------|
| Serial               | D-Sub 9 connector  | Port for serial devices                                       |
| DisplayPort 2        | DisplayPort socket | Port for monitor                                              |
| Trans. 2.1           | LC Duplex socket   | Data transmission to computer module or matrix switch (FIBER) |
| DisplayPort 1        | DisplayPort socket | Port for monitor                                              |
| Trans. 1.1           | LC Duplex socket   | Data transmission to computer module or matrix switch (FIBER) |
| Red. Power           | USB-C socket       | Power supply USB-PD (Power Delivery) redundant                |
| Main Power           | IEC plug 320 C14   | Power supply AC                                               |

## SCHEMATIC REPRESENTATION

### Dedicated extender operation



### Dedicated matrix operation



## TECHNICAL DATA

|               |                                 |                                                                                                                                                                |
|---------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General       | Brand                           | G&D                                                                                                                                                            |
|               | Product group                   | KVM extenders                                                                                                                                                  |
|               | Product Family                  | VisionXS 2.0                                                                                                                                                   |
|               | Country of origin               | Germany                                                                                                                                                        |
|               | Number of workstations          | 1                                                                                                                                                              |
|               | KVM matrix system component     | Console module (digital)                                                                                                                                       |
| Input options | USB mouse                       | yes                                                                                                                                                            |
|               | USB keyboard                    | yes                                                                                                                                                            |
| Transmission  | Number of transmission channels | 2                                                                                                                                                              |
|               | Redundant transmission channels | no 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                     | 2                                                                                                                                                                                                                                    |
|              | Format                       | DisplayPort 1.2 (LBR, HBR, HBR2, SingleStream-Transport (SST))                                                                                                                                                                       |
|              | Colour depth                 | 24 bit                                                                                                                                                                                                                               |
|              | Pixel encoding               | RGB 4:4:4 (24 bpp / 8 bpc)                                                                                                                                                                                                           |
|              | Pixel rate ca.               | 25 MPixel/s to 600 MPixel/s                                                                                                                                                                                                          |
|              | Vertical frequency           | 24 Hz to 240 Hz                                                                                                                                                                                                                      |
|              | Horizontal frequency         | 25 kHz to 295 kHz                                                                                                                                                                                                                    |
|              | Exemplary resolutions        | 4096 × 2160 (60 Hz)<br>3840 × 2160 (60 Hz)<br>2560 × 1600 (60 Hz)<br>2560 × 1440 (144 Hz)<br>2048 × 2048 (60 Hz)<br>1920 × 1200 (60 Hz)<br>1920 × 1080 (240 Hz)<br>1920 × 1080 (60 Hz)<br>5120 × 1440 (60 Hz)<br>5120 × 2160 (50 Hz) |
|              | General Notes                | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.                                                                                                                          |
| Audio 1      | 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 48 kHz                                                          |
|         | Audio support                  | Digital Embedded                                                      |
| Audio 2 | Transmission type              | Stereo<br>Transparent<br>Bidirectional                                |
|         | Resolutions                    | 24 bit digital                                                        |
|         | Sampling rate                  | up to 96 kHz                                                          |
|         | Bandwidth                      | 22 kHz                                                                |
|         | Audio support                  | Analog                                                                |
|         |                                |                                                                       |
| 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 |
|         |                                |                                                                       |
| Serial  | Standard                       | RS232                                                                 |
|         | 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                       | 460800bps (8/N/1)                     |
| Housing              | Material                                   | Sheet steel, powder-coated            |
|                      | Active cooling (fan)                       | yes                                   |
|                      | Width ca.                                  | 441 mm                                |
|                      | Height ca.                                 | 44 mm                                 |
|                      | Depth ca.                                  | 223 mm                                |
|                      | IP protection class                        | IP20                                  |
| 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                         | RoHS compliant (see downloads)<br>REACH compliant (see downloads)<br>FCC compliant (see manual)<br>CE compliant (see downloads)<br>UKCA compliant (see downloads)<br>TAA compliant (see downloads)<br>WEEE (reg. no. DE30763240) |

## MORE VARIANTS

| Description                                                                                                                              | Article number |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CON-2F(M)-DP-UHR-DT 2.0</b><br>Redundant console module to receive DisplayPort1.2 signals of 2 sources via fiber multimode   | A1120809       |
| <b>VisionXS-CON-2F(M)-DP-UHR-U-DT 2.0</b><br>Redundant console module to receive DisplayPort1.2 signals of 2 sources via fiber multimode | A1120800       |
| <b>VisionXS-CON-F(M)-DP-UHR-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                           | A1120812       |
| <b>VisionXS-CON-F(M)-DP-UHR-U-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                         | A1120803       |
| <b>VisionXS-CON-F(M)-DP-UHR-U2-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                        | A1120806       |
| <b>VisionXS-CON-F(M)-MC2-DP-UHR-U-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                     | A1120782       |
| <b>VisionXS-CON-F(M)-MC2-DP-UHR-U2-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                    | A1120785       |
| <b>VisionXS-CON-F(M)-MC4-DP-UHR-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                       | A1120797       |
| <b>VisionXS-CON-F(M)-MC4-DP-UHR-U-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                     | A1120791       |
| <b>VisionXS-CON-F(M)-MC4-DP-UHR-U2-DT 2.0</b><br>Console module to receive DisplayPort1.2 signals via fiber multimode                    | A1120794       |

# 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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