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G&D Product data sheet - Oct 29, 2025 [DP1.2-VisionXG-Fiber\(S\)-ARU2-CON](#)

# DP1.2-VisionXG-Fiber(S)-ARU2-CON

**KVM extenders, Article number A1120286**

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The KVM extenders of the DP1.2-VisionXG 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) uncompressed, pixel-perfect and without any latency or loss. An extender system consists of a computer module (CPU) and a compatible console module (CON). The VisionXS-DP-UHR series supports DisplayPort1.2 for ultra-high-resolution video up to 4096 × 2160 (60 Hz) or 5120 × 2160 (50 Hz).

## Scope of delivery

| Quantity | Description                    | Article number |
|----------|--------------------------------|----------------|
| 2        | PowerCable-2 Standard cable 2m | A6300057       |
| 1        | 19" RM-Set-436-1RU             | A7000003       |

## Details

### Video

- EDID data utilization from the workplace monitor
- Flexible EDID profile options for optimized monitor settings
- Native 4K resolution at 60 Hz
- Uncompressed, lossless transmission in 1:1 performance, pixel perfect, latency free (zero delay) transmission, no frame drops, no tearing with a perfect hand eye coordination

### Signals

- Embedded stereo audio (Digital, 2 channel LPCM)
- Transparent audio signals (stereo, analog)
- Transparent RS232 (max. 230,400 bps)
- Embedded USB 2.0 with Hi-Speed, transparent, all USB classes

### Transmission

- The transmission distance is up to 10,000 meters over fiber singlemode 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
- Ventilation concept for use in cold/warm aisle installations
- MultiChannel variants (MC): Modules for multi-monitor workplaces with multi-channel video

- MC mode uses the full bandwidth for each video channel, whereby a separate transmission line is required for each channel

## **Warranty**

- A 3-year, free of charge product guarantee
- For an additional fee guarantee extension possible

## **Features**

### **Video**

- Efficient image data compression (fall-back compression) can be activated for emergency operation (for example, if single transmission lines fail, the bandwidth may be reduced in a way that uncompressed transmission can no longer be ensured)

### **Security features**

- 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
- Freeze function: If the video signal is lost, the last displayed image is frozen and highlighted with a colored frame and timer
- Redundant internal power packs
- Redundant network interface

### **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
- Local console at the computer module allows on-site operation, including all video channels
- Exclusive or concurrent operation: The KVM extender allows computer control both remotely and locally. When an input is detected, the extender automatically locks the competing console. The lock is lifted after a preset timeout if no further input is detected. A key combination can activate exclusive operation, immediately disabling the competing console. Another key combination restores shared control.

## Technical data

|                      |                                 |                                                                |
|----------------------|---------------------------------|----------------------------------------------------------------|
| <b>General</b>       | Product group                   | KVM extenders                                                  |
|                      | Product Family                  | DP1.2-VisionXG                                                 |
|                      | Number of workstations          | 1                                                              |
|                      | Power Supply                    | Redundancy without load balancing                              |
| <b>Input options</b> | USB mouse                       | yes                                                            |
|                      | USB keyboard                    | yes                                                            |
|                      | PS/2 keyboard                   | yes                                                            |
|                      | Number of transmission channels | 2                                                              |
| <b>Transmission</b>  | Redundant transmission channels | no redundant KVM transmission                                  |
|                      | Range                           | 10,000 m (9/125µm, OS1)                                        |
|                      | Laser class                     | Class 1                                                        |
|                      | Type of interface               | LC-Duplex                                                      |
|                      | Wavelength                      | 1,310 nm                                                       |
|                      | Medium                          | Fiber SM                                                       |
|                      | Data rate                       | 10 Gbit/s                                                      |
|                      | Quantity                        | 1                                                              |
|                      | 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.                  | 0 MPixel/s to 600 MPixel/s                                     |
|                      | Vertical frequency              | 24 Hz to 240 Hz                                                |
|                      | Horizontal frequency            | 25 kHz to 295 kHz                                              |
| <b>Video output</b>  | Exemplary resolutions           | 4096 × 2160 (60 Hz)                                            |
|                      |                                 | 3840 × 2160 (60 Hz)                                            |
|                      |                                 | 2560 × 1600 (60 Hz)                                            |
|                      |                                 | 2560 × 1440 (144 Hz)                                           |
|                      |                                 | 2048 × 2048 (60 Hz)                                            |
|                      |                                 | 1920 × 1200 (60 Hz)                                            |
|                      |                                 | 1920 × 1080 (240 Hz)                                           |
|                      |                                 | 1920 × 1080 (60 Hz)                                            |
|                      |                                 | 5120 × 1440 (60 Hz)                                            |
|                      |                                 | 5120 × 2160 (50 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)              |
|                    | Transmission type              | Stereo<br>2-channel LPCM                                                                                    |
| <b>Audio 1</b>     | Resolutions                    | 24 bit<br>20 bit<br>16 bit                                                                                  |
|                    | Sampling rate                  | up to 48 kHz                                                                                                |
|                    | Audio support                  | Digital Embedded                                                                                            |
| <b>Audio 2</b>     | Transmission type              | Stereo<br>Transparent                                                                                       |
|                    | Resolutions                    | 24 bit digital                                                                                              |
|                    | Sampling rate                  | up to 96 kHz                                                                                                |
|                    | Bandwidth                      | 22 kHz                                                                                                      |
|                    | Audio support                  | Analog                                                                                                      |
| <b>USB</b>         | Separate USB transmission port | no                                                                                                          |
|                    | Specification                  | USB 2.0                                                                                                     |
|                    | Medium                         | Embedded                                                                                                    |
|                    | Transmission rate              | max. 480 Mbit/s (Hi-Speed)                                                                                  |
|                    | Range                          | max. 10,000 m                                                                                               |
| <b>Serial</b>      | USB classes                    | All                                                                                                         |
|                    | Standard                       | RS232                                                                                                       |
|                    | Transparent transmission       | yes                                                                                                         |
|                    | Data rate                      | max. 230,400 bps                                                                                            |
|                    | Signals                        | TxD<br>RxD<br>DTR<br>DSR<br>RTS<br>CTS<br>DCD                                                               |
| <b>Network</b>     | Quantity                       | 2                                                                                                           |
|                    | Medium                         | CAT5<br>CAT6<br>CAT7                                                                                        |
|                    | Data rate                      | 10 Mbit/s<br>100 Mbit/s<br>1 Gbit/s                                                                         |
|                    | Update via                     | ConfigPanel (Network)                                                                                       |
| <b>Maintenance</b> | Serviceport settings           | 115200bps (8/N/1)                                                                                           |
| <b>Housing</b>     | Material                       | anodised aluminium                                                                                          |
|                    | Width ca.                      | 436 mm                                                                                                      |

|                             |                                            |                                                                                                                                                                   |
|-----------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | Height ca.                                 | 44 mm                                                                                                                                                             |
|                             | Depth ca.                                  | 210 mm                                                                                                                                                            |
|                             | IP protection class                        | IP20                                                                                                                                                              |
|                             | Weight ca.                                 | 2.61 kg                                                                                                                                                           |
|                             | 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 | 3,000 m                                                                                                                                                           |
|                             | Storage temperature                        | -20 °C to 60 °C                                                                                                                                                   |
|                             | Storage air humidity, non-condensing       | 15 % to 80 %                                                                                                                                                      |
|                             | MTBF                                       | 146,000 h at 25°C                                                                                                                                                 |
| <b>Operating conditions</b> | Note                                       | Special Fiber variants for CWDM (Coarse Wavelength Division Multiplexing) are expected to allow a lower maximum temperature, but at least +5°C to at least +35°C. |
|                             |                                            | UKCA compliant (see downloads)                                                                                                                                    |
|                             |                                            | UL compliant (see downloads)                                                                                                                                      |
|                             |                                            | CB compliant (see downloads)                                                                                                                                      |
|                             |                                            | FCC compliant (see manual)                                                                                                                                        |
|                             | Conformities                               | TAA compliant (see downloads)                                                                                                                                     |
|                             |                                            | EAC compliant (see downloads)                                                                                                                                     |
|                             |                                            | RoHS compliant (see downloads)                                                                                                                                    |
|                             |                                            | WEEE (reg. no. DE30763240)                                                                                                                                        |
|                             |                                            | REACH compliant (see downloads)                                                                                                                                   |
|                             |                                            | CE compliant (see downloads)                                                                                                                                      |
|                             | Quantity                                   | 2                                                                                                                                                                 |
|                             | Type                                       | Internal                                                                                                                                                          |
|                             | Input voltage                              | 100-240 VAC                                                                                                                                                       |
| <b>Power supply</b>         | Input frequency                            | 60-50 Hz                                                                                                                                                          |
|                             | Current consumption                        | 1-0.6 A                                                                                                                                                           |
|                             | Power consumption max.                     | 52.5 W                                                                                                                                                            |
|                             | Heat output max.                           | 37.9 W                                                                                                                                                            |

accessory products

| Image | Description                                                                             | Article number |
|-------|-----------------------------------------------------------------------------------------|----------------|
|       | <b>USB-Service-2 cable 2m</b><br>Cable for system updates and configuration             | A6200103       |
|       | <b>PowerCable-3 Standard cable 3m</b><br>Cable to connect the power supply type Germany | A6300066       |

| Image | Description                                                                             | Article number |
|-------|-----------------------------------------------------------------------------------------|----------------|
|       | <b>PowerCable-5 Standard cable 5m</b><br>Cable to connect the power supply type Germany | A6300065       |

## more variants

| Description                                                                                                                  | Article number |
|------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DP1.2-VisionXG-Fiber(S)-AR-CON</b><br>User console to receive uncompressed DisplayPort signals via fiber singlemode       | A1120285       |
| <b>DP1.2-VisionXG-Fiber(S)-MC2-AR-CON</b><br>User console to receive uncompressed DisplayPort signals via fiber singlemode   | A1220238       |
| <b>DP1.2-VisionXG-Fiber(S)-MC2-ARU2-CON</b><br>User console to receive uncompressed DisplayPort signals via fiber singlemode | A1220239       |
| <b>DP1.2-VisionXG-Fiber(S)-MC4-AR-CON</b><br>User console to receive uncompressed DisplayPort signals via fiber singlemode   | A1420264       |
| <b>DP1.2-VisionXG-Fiber(S)-MC4-ARU2-CON</b><br>User console to receive uncompressed DisplayPort signals via fiber singlemode | A1420265       |

## 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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