

# DP1.2-VISIONXG-CAT-MC2-ARU2-CON

KVM extenders, Article number A1220254



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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 x 2160 (60 Hz) or 5120 x 2160 (50 Hz).

## SCOPE OF DELIVERY

| Quantity | Description                             | Article number |
|----------|---|----------------|
| 2        | PowerCable-2 Standard cable 2m          | A6300057       |
| 1        | 19" RM-Set-436-1RU                      | A7000003       |
| 1        | Safety instructions flyer - FCC class B | A9100371       |

## 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 100 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
- 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

|               |                                 |   |
|---------------|---------------------------------|---|
| General       | Brand                           | G&D   |
|               | Product group                   | KVM extenders   |
|               | Product Family                  | DP1.2-VisionXG  |
|               | Country of origin               | Germany   |
|               | Number of workstations          | 1   |
|               | Power Supply                    | Redundancy without load balancing                                 |
| Input options | USB mouse                       | yes   |
|               | USB keyboard                    | yes   |
|               | PS/2 keyboard                   | yes   |
| Transmission  | Number of transmission channels | 4   |
|               | Redundant transmission channels | no redundant KVM transmission                                     |
|               | Range                           | 80 m (AWG26)<br>100 m (AWG24)<br>100 m (AWG22)                    |
|               | Medium                          | CAT6<br>CAT7  |
|               | Data rate                       | 10 Gbit/s   |
| Video output  | Quantity                        | 2   |
|               | Format                          | DisplayPort 1.2 (LBR, HBR, HBR2,<br>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  |
|         | 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.  |
|         | Supported industry standards | Display Data Channel Command Interface (DDC/CI)<br>Extended Display Identification Data (EDID)   |
| Audio 1 | Transmission type            | Stereo<br>2-channel LPCM   |
|         | 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  |
|         | 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                                       |
|         | Medium                         | Embedded                                      |
|         | Transmission rate              | max. 480 Mbit/s (Hi-Speed)                    |
|         | Range                          | max. 100 m                                    |
|         | USB classes                    | All   |
| Serial  | 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 |
| Network | Quantity                       | 2   |
|         | Medium                         | CAT5<br>CAT6<br>CAT7                          |
|         | Data rate                      | 10 Mbit/s<br>100 Mbit/s<br>1 Gbit/s           |

|                      |  |   |
|----------------------|--|---|
| Maintenance          | Update via                                 | ConfigPanel (Network)   |
|                      | Serviceport settings                       | 115200bps (8/N/1)   |
| Housing              | Material                                   | Anodised aluminium  |
|                      | Active cooling (fan)                       | yes   |
|                      | Width ca.                                  | 436 mm  |
|                      | Height ca.                                 | 44 mm   |
|                      | Depth ca.                                  | 210 mm  |
|                      | IP protection class                        | IP20  |
|                      | Weight ca.                                 | 2.62 kg   |
| 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 | 3,000 m   |
|                      | Storage environment temperature            | -20 °C to 60 °C   |
|                      | Storage air humidity, non-condensing       | 15 % to 80 %  |
|                      | MTBF                                       | 146,000 h at 25°C   |
|                      | 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. |

|              |                        |   |
|--------------|------------------------|---|
|              | Conformities           | UKCA compliant (see downloads)<br>UL compliant (see downloads)<br>CB compliant (see downloads)<br>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) |
| Power supply | Quantity               | 2   |
|              | Type                   | Internal  |
|              | Input voltage          | 100-240 VAC   |
|              | Input frequency        | 60-50 Hz  |
|              | Current consumption    | 1.1-0.7 A   |
|              | Power consumption max. | 48.5 W  |
|              | Heat output max.       | 43.2 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       |
|  | <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-CAT-AR-CON</b><br>User console to receive uncompressed DisplayPort signals via CAT cable     | A1120376       |
| <b>DP1.2-VisionXG-CAT-ARU2-CON</b><br>User console to receive uncompressed DisplayPort signals via CAT cable   | A1120377       |
| <b>DP1.2-VisionXG-CAT-MC2-AR-CON</b><br>User console to receive uncompressed DisplayPort signals via CAT cable | A1220253       |

# 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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