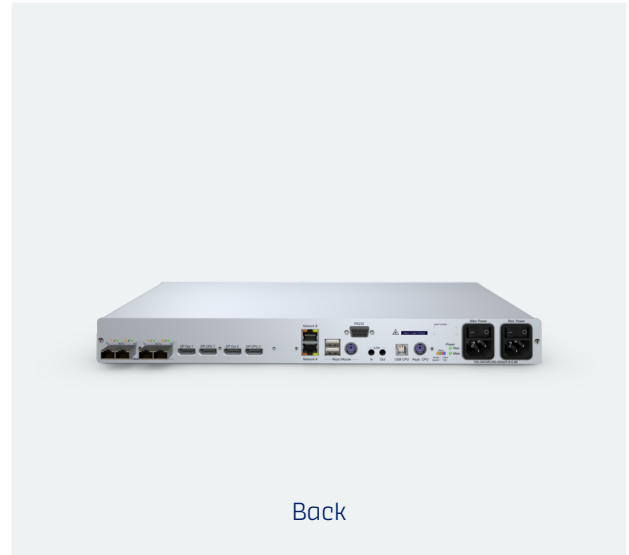


# DP1.2-VISIONXG-CAT-MC2-AR-CPU

KVM extenders, Article number A1210217



Front



Back

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        | USB-AM/BM-2 cable USB 2m                | A6300113       |
| 2        | DP1.4-Cable-M/M-2 SK13357 2m            | A6300173       |
| 1        | RS232-M/F-2 cable RS232 2m              | A6300023       |
| 2        | Audio-M/M-2-ferrite cable 2m            | A6300083       |
| 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)

### 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       | Product group                   | KVM extenders                                                     |
|               | Product Family                  | DP1.2-VisionXC                                                    |
|               | 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 input   | 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)                                                                                                                                                                                      |
| 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.               | 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                                                                                                                                                                                                                               |

|                      |                                        |                                               |
|----------------------|----------------------------------------|-----------------------------------------------|
| 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                            |
|                      | Width ca.                              | 436 mm                                        |
|                      | Height ca.                             | 44 mm                                         |
|                      | Depth ca.                              | 210 mm                                        |
|                      | IP protection class                    | IP20                                          |
| 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 | 3,000 m                                                                                                                                                                                                                                                                                                                           |
|              | Storage 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                        | 0.9-0.5 A                                                                                                                                                                                                                                                                                                                         |
|              | Power consumption max.                     | 42.1 W                                                                                                                                                                                                                                                                                                                            |
|              | Heat output max.                           | 40.1 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       |
|    | <b>Audio-M/M-3-ferrite cable 3m</b><br>Audio connection cable with ferrite core                    | A6300118       |
|    | <b>Audio-M/M-5-ferrite cable 5m</b><br>Audio connection cable with ferrite core                    | A6300085       |
|  | <b>DP1.4-Cable-M/M-3 SK13358 3m</b><br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300174       |
|  | <b>DP1.4-Cable-M/M-5 SK13359 5m</b><br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300175       |
|  | <b>RS232-M/F-5 cable RS232 5m</b><br>Cable to connect a serial device                              | A6300025       |
|  | <b>USB-AM/BM-3 cable USB 3m</b><br>USB cable, Type-A Plug/Type-B Plug                              | A6300114       |
|  | <b>USB-AM/BM-5 cable USB 5m</b><br>USB cable, Type-A Plug/Type-B Plug                              | A6300111       |

## MORE VARIANTS

| Description                                                                                                        | Article number |
|--------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DP1.2-VisionXG-CAT-AR-CPU</b><br>Computer module to extend uncompressed DisplayPort signals via CAT cable       | A1110258       |
| <b>DP1.2-VisionXG-CAT-ARU2-CPU</b><br>Computer module to extend uncompressed DisplayPort signals via CAT cable     | A1110259       |
| <b>DP1.2-VisionXG-CAT-MC2-ARU2-CPU</b><br>Computer module to extend uncompressed DisplayPort signals via CAT cable | A1210218       |

# 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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