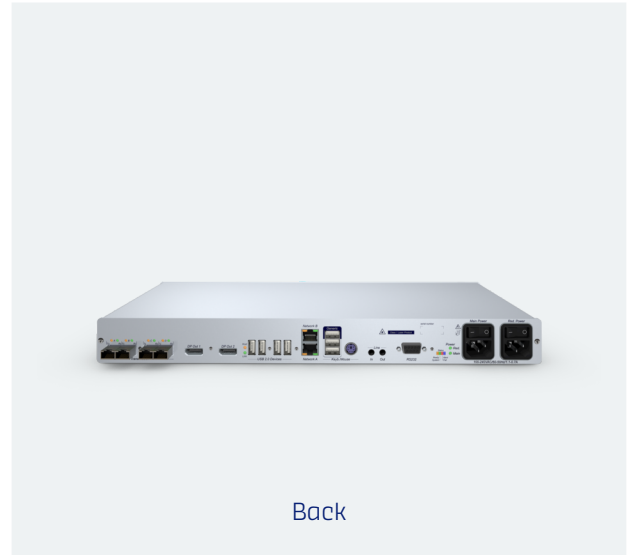


# DP1.2-VISIONXG-CAT-MC2-ARU2-CON

KVM extenders, Article number A1220254



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        | 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 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/guarantee renewal 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                                                     |
|               | Number of workstations          | 1                                                                 |
| 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  | Number of video channels        | 2                                                                 |
|               | Format                          | DisplayPort 1.2<br>(LBR, HBR, HBR2, SingleStream-Transport (SST)) |
|               | Colour depth                    | 24 bit                                                            |
|               | Pixel encoding                  | RGB 4:4:4 (24 bpp / 8 bpc)                                        |
|               | Pixel rate                      | up to ca. 600 MPixel/s                                            |
|               | Vertical frequency              | 24 Hz to 240 Hz                                                   |
|               | Horizontal frequency            | 25 kHz to 295 kHz                                                 |
|               |                                 |                                                                   |

|         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Exemplary resolutions        | 4096 × 2160 (60 Hz) - 4K UHD / 4K2K<br>3840 × 2160 (60 Hz) - 4K UHD / 4K2K<br>2560 × 1600 (60 Hz) - 2K / WQXGA<br>2560 × 1440 (144 Hz) - 4K UHD / 4K2K<br>2048 × 2048 (60 Hz) - 2K / WQXGA<br>1920 × 1200 (60 Hz) - Full HD / WUXGA<br>1920 × 1080 (240 Hz) - 4K UHD / 4K2K<br>1920 × 1080 (60 Hz) - Full HD / WUXGA<br>5120 × 1440 (60 Hz) - 4K UHD / 4K2K<br>5120 × 2160 (50 Hz) - 4K UHD / 4K2K<br>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   | 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     | Specification                | USB 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|             |                          |                                               |
|-------------|--------------------------|-----------------------------------------------|
|             | Medium                   | Embedded                                      |
|             | Transmission rate        | 480 Mbit/s (Hi-Speed)                         |
|             | Range                    | max. 100 m                                    |
|             | USB classes              | All                                           |
| Serial      | Standard                 | RS232                                         |
|             | Transparent transmission | yes                                           |
|             | Data rate                | max. 230400 bps                               |
|             | Signals                  | TxD<br>RxD<br>DTR<br>DSR<br>RTS<br>CTS<br>DCD |
| Network     | Medium 1                 | CAT7<br>CAT6<br>CAT5                          |
|             | Data rate 1              | 10 MBit/s<br>100 MBit/s<br>1 GBit/s           |
|             | Medium 2                 | CAT5<br>CAT6<br>CAT7                          |
|             | Data rate 2              | 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                                                                                                                                                                                                                                                                                                                              |
|                      | Weight                     | ca. 2.62 kg                                                                                                                                                                                                                                                                                                                       |
| Operating conditions | Operating temperature      | 5 °C to 45 °C                                                                                                                                                                                                                                                                                                                     |
|                      | Operating air humidity     | 20 % to 80 %, non-condensing                                                                                                                                                                                                                                                                                                      |
|                      | Area of application        | Interior                                                                                                                                                                                                                                                                                                                          |
|                      | Maximum operating altitude | 3000m above sea level                                                                                                                                                                                                                                                                                                             |
|                      | Storage temperature        | -20 °C to 60 °C                                                                                                                                                                                                                                                                                                                   |
|                      | Storage air humidity       | 15 % to 80 %, non-condensing                                                                                                                                                                                                                                                                                                      |
|                      | MTBF                       | 146000 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   | 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      |
| Power supply 2 | 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      |



## 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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