# 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 |
| 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
- Monitoring of system states such as status, power supply, temperature and computer modules and console modules are monitored as well
- Each monitoring value can be enabled individually; critical states raise an alarm, which authorized users can acknowledge to downgrade it to warning level
- Syslog logging locally and to up to two servers, via TCP or UDP, with configurable port, eight severity levels per the syslog standard and ISO 8601 timestamps
- Logged events include user logins, failed login attempts, changes to user rights, connections to remote targets and failed backups
- SNMP agent supporting SNMPv2c and SNMPv3; for SNMPv3, authentication via SHA-1 through SHA-512, encryption with AES128, AES192 or AES256, and security levels up to authPriv
- Access to the SNMP agent can be restricted to defined source IP addresses or network segments (IPv4 and IPv6)
- SNMP notifications to multiple receivers, sent either as traps or as acknowledged informs, with a configurable severity threshold
- 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 workplaces | 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, SingleStream-Transport (SST)) |
| | Colour depth | 24 bit |

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|---|---|---|
| | 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 |

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|---|---|---|
| | 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 |

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| Maintenance | Update via | ConfigPanel (Network) |
| | Serviceport settings | 115200bps (8/N/1) |
| Housing | Material | Anodised aluminium |
| | Active cooling (fan) | yes |
| | Width ca. | 436 mm / 17.17 in |
| | Height ca. | 44 mm / 1.73 in |
| | Depth ca. | 210 mm / 8.27 in |
| | IP protection class | IP20 |
| | Weight ca. | 2.62 kg / 5.78 lb |
| Operating conditions | Operating environment temperature | 5 °C to 45 °C / 41 °F to 113 °F |
| | 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 / -4 °F to 140 °F |
| | Storage air humidity, non-condensing | 15 % to 80 % |
| | MTBF | 146,000 h at 25°C (77 °F) |
| | 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. |

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| | 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>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 / 147.40 BTU/h |

## ACCESSORY PRODUCTS

| Image | Description | Article number |
|---|---|---|
| | **USB-Service-2 cable 2m**<br>Cable for system updates and configuration | A6200103 |
| | **PowerCable-3 Standard cable 3m**<br>Cable to connect the power supply type Germany | A6300066 |
| | **PowerCable-5 Standard cable 5m**<br>Cable to connect the power supply type Germany | A6300065 |

## MORE VARIANTS

| Description | Article number |
|---|---|
| **DP1.2-VisionXG-CAT-AR-CON**<br>User console to receive uncompressed DisplayPort signals via CAT cable | A1120376 |
| **DP1.2-VisionXG-CAT-ARU2-CON**<br>User console to receive uncompressed DisplayPort signals via CAT cable | A1120377 |
| **DP1.2-VisionXG-CAT-MC2-AR-CON**<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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