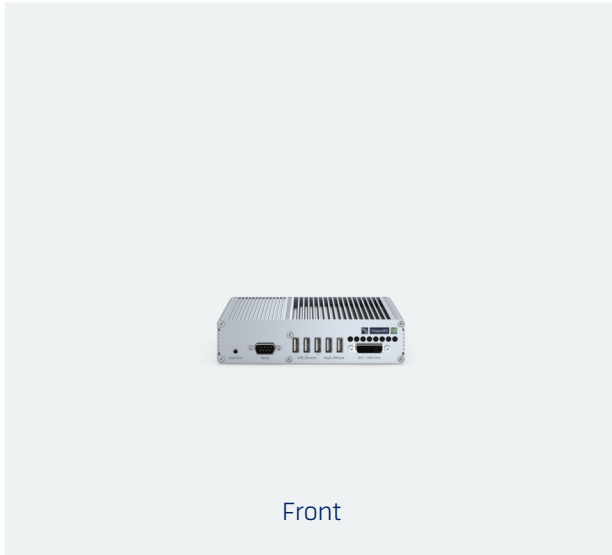
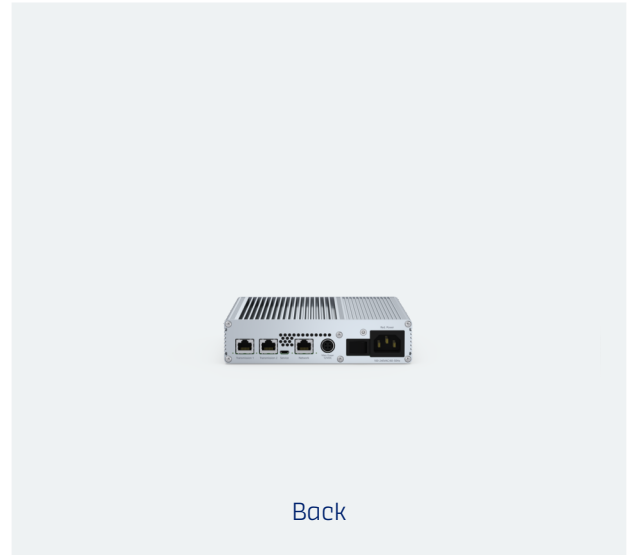


# VISIONXS-IP-CON-C-DVI-I-AR-DT-POE

KVM extenders, Article number A1120627



Front



Back

The matrix-compatible KVM-over-IP extenders of the VisionXS-IP-DVI-I series extend keyboard, video, and mouse signals, as well as other peripheral data (e.g., audio and USB), via a standardized IP network infrastructure with CAT or fiber connection (up to 10,000 m). An extender system consists of a computer module (CPU) and a compatible console module (CON). Computers can be controlled in near real-time – both in extender and matrix applications. The VisionXS-IP-DVI-I series supports SingleLink DVI-I for analog and digital video resolutions up to 1920 × 1200 (60 Hz). Video data is processed pixel-perfectly and offers excellent hand-eye coordination, thanks to bluedec™ – G&D's advanced, multi-stage, lossless compression technology.

## SCOPE OF DELIVERY

| Quantity | Description                             | Article number |
|----------|-----------------------------------------|----------------|
| 1        | PowerCable-2 Standard cable 2m          | A6300057       |
| 1        | Safety instructions flyer - FCC class B | A9100371       |
| 1        | Power supply usage flyer                | A9100409       |

## DETAILS

### VIDEO

- bluedec™ – advanced developed multi-stage compression for best video quality and practically latency-free transmission. This method enables pixel-perfect video transmission with efficient bandwidth use.
- The KVM-over-IP end devices can be flexibly combined with each other, even if they process different video signals (Mix & Match)
- EDID data utilization from the workplace monitor
- Flexible EDID profile options for optimized monitor settings
- Resolution up to  
1920 × 1200 @ 60 Hz,  
1280 × 1024 @ 85 Hz

### SIGNALS

- Transparent audio signals (stereo, analog)
- Transparent RS232 (max. 115,200 bps)
- GenericUSB support for USB classes HID (Human Interface Device), SmartCard and mass storage
- The product allows the simultaneous use of up to five GenericUSB devices via a console module. For this, both the used console module and the used computer module must support the use of up to five GenericUSB devices.

### TRANSMISSION

- At least one Layer-2-managed switch with Gigabit Ethernet is required, offering features such as QoS and VLAN. Additionally, adequate performance (forwarding bandwidth, switching bandwidth, forwarding performance, and uplinks) must be ensured, especially when using multiple network switches
- KVM-over-IP™ via IP-based networks (layer 3)
- Transmission distance between two active network components is up to 100 meters over CAT cables

### DEVICE

- Improved security through physical separation between workplaces and computers
- Access to standard interfaces of the computer, with no software installation required
- Compact design for space-saving installation within a VisionXS DeviceCarrier (1 or 3 RU)
- PowerPack not included in the scope of delivery
- DT variant: Optional redundant power supply via an internal power unit for high reliability
- Fanless variant: fanless model
- The devices are compatible with the ControlCenter-IP and ControlCenter-IP-XS series (matrix operation) and other KVM-over-IP end devices for computer and workplace connections (extender operation)

- Alternative power supply via Power-over-Ethernet (PoE), class 6 (only via "Transmission 1" interface)
- For PoE supply, e. g. network switches or midspans (adapters in the network lines) can be used; the counterpart must support PoE class 6

## WARRANTY

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

## FEATURES

### SECURITY FEATURES

- Permanent encryption of all communication and data transmissions, as well as sensitive information such as login credentials and passwords, guarantees a high level of security in critical environments
  - AES256-GCM for keyboard/mouse and control data
  - AES128-CTR for video, audio, GenericUSB and RS232
- Bootloader, operating system, and firmware form a "Trusted Computing Platform" with automatic integrity checks during system startup
- Integrated Trusted Platform Module (TPM) protects all access and configuration data from being spied on or tampered with by third parties
- 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
- To comply with individual password policies and improve security, password complexity can be configured system-wide
- Configurable login options, such as displaying terms of use or setting the maximum acceptable number of failed login attempts, can enhance system security
- The optional UID-Locking restricts the usable end devices, ensuring that no additional devices can be added or replaced after activation
- Auto Backup Function: Automates backups at user-defined intervals and replaces manual intervention – ensuring reliable, timely data protection without the need for continuous monitoring
- Freeze function: If the video signal is lost, the last displayed image is frozen and highlighted with a colored frame and timer
- 2-Factor-Authentication (2FA) – is integrated by default in KVM extenders and enhances security by requiring a second, possession-based factor during user authentication:
  - The traditional password authentication is combined with a time-limited, single-use code (Time-Based-One-Time-Password - TOTP)
  - You can choose between using the internal authentication server provided in the device or an external directory service
  - Authenticator apps or hardware token can be used

- This additional layer of protection prevents unauthorized access and ensures the highest level of security, particularly in sensitive IT environments

## OPERATION FEATURES

- Ready for operation out of the box, no additional configuration required in direct connection. IP address configuration and pairing are required when using multiple modules in a network setup
- 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
- additional, independent management network interface for configuration
- manual bandwidth management to adjust the required bandwidth
- With the integrated IP-MUX functionality the console modules offer the possibility to access different computer modules (one after the other). To use this function, you can connect a maximum of 20 computers to separate computer modules. The computer modules are configured as targets in the console module and can be connected via the local on-screen display.

## EXTENSIONS

### DEVICE

- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply
- Device mounting via G&D 19" DeviceCarrier for VisionXS (1 or 3 RU)

### SECURITY FEATURES

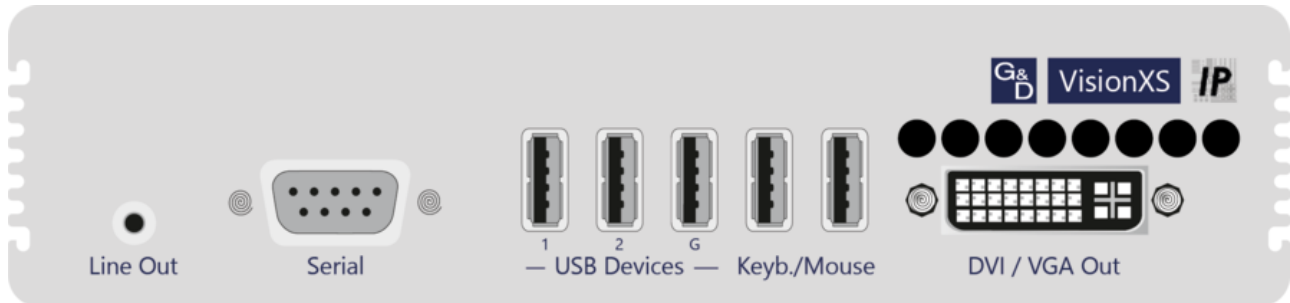
- SecureCert feature – premium software feature that ensures compliance with the strict security standards FIPS 140-3, DoDIN APL, and CC EAL2+
  - Federal Information Processing Standard (FIPS) 140-3 is a U.S. government standard designed to protect sensitive and valuable data in IT systems. It defines security requirements for cryptographic modules and provides a secure framework for cryptographic operations in IT infrastructures
  - The Department of Defense Information Network Approved Products List (DoDIN APL) is a consolidated list of products approved for use in the technology infrastructure of U.S. government agencies. To be listed, products must meet specific requirements within defined categories, including technical, functional, and security-related criteria
  - Common Criteria (CC) is an internationally recognized standard for evaluating and certifying the security of IT products. It ensures that products meet defined security requirements and are protected against identified threats. Certification is granted at Evaluation Assurance Level (EAL) 2+, an internationally acknowledged level that guarantees a fundamental and reliable security assessment

### SYSTEM EXTENSION

- Transm. Redundancy Option (Link-Aggregation): The devices are prepared for transmission redundancy without additional hardware and can be activated via a software feature key.
  - Two network interfaces can be linked via link aggregation, ensuring seamless failover and stable communication in case of a failure
- You can integrate the matrix-compatible KVM-over-IP extenders into a complete installation with a ControlCenter-IP or ControlCenter-IP-XS, even at a later point in time. This provides you with even greater flexibility through the possibility of distributed access – and the existing components can continue to be used.

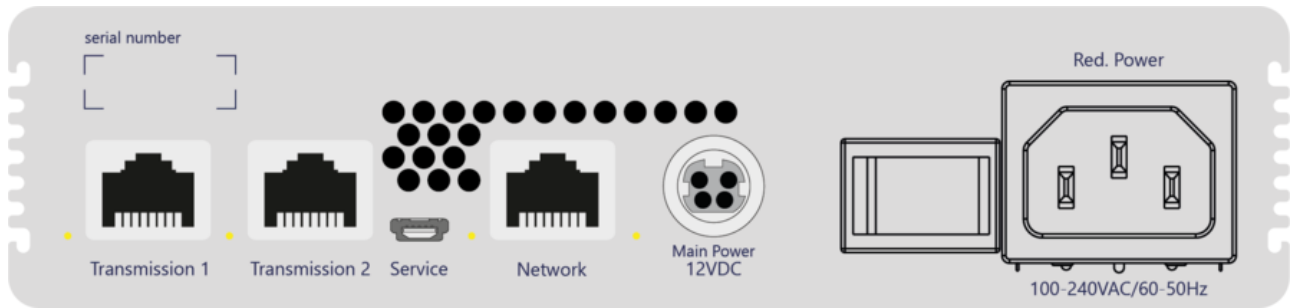
## INTERFACES

### FRONT



| Aperture designation | Design               | Description                    |
|----------------------|----------------------|--------------------------------|
| Line Out             | Jack socket - 3,5 mm | Port for speaker/headset       |
| Serial               | D-Sub9 jack          | Port for serial devices        |
| USB Devices - 1      | USB-A socket 2.0     | Port for USB devices (Generic) |
| USB Devices - 2      | USB-A socket 2.0     | Port for USB devices (Generic) |
| USB Devices - G      | USB-A socket 2.0     | Port for USB devices (Generic) |
| Keyb./Mouse          | USB-A socket 2.0     | Port for keyboard and mouse    |
| DVI / VGA Out        | DVI-I socket         | Port for monitor               |

## BACK



| Aperture designation | Design            | Description                                                                                         |
|----------------------|-------------------|-----------------------------------------------------------------------------------------------------|
| Transmission 1       | RJ45 socket       | Data transmission to computer module or matrix switch over IP network (CAT, incl. POE power supply) |
| Transmission 2       | RJ45 socket       | Data transmission to computer module or matrix switch over IP network redundant (CAT)               |
| Service              | Micro-USB socket  | Port for service purposes                                                                           |
| Network              | RJ45 socket       | Port for IP network                                                                                 |
| Main Power           | Mini-DIN 4 socket | Power supply DC                                                                                     |
| Red. Power           | IEC plug 320 C14  | Power supply AC redundant                                                                           |



## TECHNICAL DATA

|               |                                 |                                     |
|---------------|---------------------------------|-------------------------------------|
| General       | Product group                   | KVM extenders                       |
|               | Product Family                  | VisionXS-IP                         |
|               | Number of workstations          | 1                                   |
|               | KVM matrix system component     | Console module (digital)            |
|               | Power Supply                    | Redundancy without load balancing   |
| Input options | USB mouse                       | yes                                 |
|               | USB keyboard                    | yes                                 |
| Transmission  | Number of transmission channels | 1                                   |
|               | Redundant transmission channels | optional redundant KVM transmission |
|               | Range                           | 100 m                               |
|               | Medium                          | CAT7<br>CAT6                        |
|               | Data rate                       | 1 Gbit/s                            |
|               | Power-over-Ethernet (PoE)       | Class 6 (<51 W; IEEE 802.3bt)       |
| Video output  | Quantity                        | 1                                   |
|               | Format                          | Singlelink DVI                      |
|               | Colour depth                    | 24 bit                              |
|               | Pixel rate ca.                  | 25 MHz to 165 MHz                   |
|               | Vertical frequency              | 24 Hz to 120 Hz                     |
|               | Horizontal frequency            | 25 kHz to 135 kHz                   |

|        |                                |                                                                                                                 |
|--------|--------------------------------|-----------------------------------------------------------------------------------------------------------------|
|        | Exemplary resolutions          | 1920 × 1200 (60 Hz)<br>1920 × 1080 (60 Hz)<br>1600 × 1200 (60 Hz)<br>1280 × 1024 (85 Hz)<br>1280 × 1024 (60 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>Display Data Channel (DDC)                                   |
| Audio  | 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                                                                                                         |
|        | GenericUSB support             | up to 5 devices                                                                                                 |
|        | Medium                         | Embedded                                                                                                        |
|        | Transmission rate              | max. 25 Mbit/s (Full Speed)                                                                                     |
|        | USB classes                    | Mass Storage (MSC / UMS)<br>Human Interface Device (HID)<br>SmartCard                                           |
| Serial | Standard                       | RS232                                                                                                           |
|        | Transparent transmission       | yes                                                                                                             |

|                      |                                        |                                       |
|----------------------|----------------------------------------|---------------------------------------|
|                      | Data rate                              | 115,200 bps                           |
|                      | Signals                                | TxD<br>RxD<br>RTS<br>CTS<br>GND<br>5V |
| Network              | Quantity                               | 1                                     |
|                      | Medium                                 | CAT5<br>CAT6<br>CAT7                  |
|                      | Data rate                              | 10 Mbit/s<br>100 Mbit/s               |
| Maintenance          | Update via                             | ConfigPanel (Network)                 |
|                      | Serviceport settings                   | 115200bps (8/N/1)                     |
| Housing              | Material                               | anodised aluminium                    |
|                      | Width ca.                              | 170 mm                                |
|                      | Height ca.                             | 40 mm                                 |
|                      | Depth ca.                              | 184 mm                                |
|                      | IP protection class                    | IP20                                  |
|                      | Weight ca.                             | 1.25 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 | 3,048 m                                                                                                                                                                                                                                                           |
|                | Storage environment temperature            | -20 °C to 60 °C                                                                                                                                                                                                                                                   |
|                | Storage air humidity, non-condensing       | 15 % to 85 %                                                                                                                                                                                                                                                      |
|                | MTBF                                       | 200,000 h at 25°C                                                                                                                                                                                                                                                 |
|                | Conformities                               | CE compliant (see downloads)<br>UKCA 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) |
| Power supply 1 | Quantity                                   | 1                                                                                                                                                                                                                                                                 |
|                | Type                                       | External                                                                                                                                                                                                                                                          |
|                | Input voltage                              | 12 VDC                                                                                                                                                                                                                                                            |
|                | Current consumption                        | 1.8 A                                                                                                                                                                                                                                                             |
| Power supply 2 | Quantity                                   | 1                                                                                                                                                                                                                                                                 |
|                | Type                                       | Internal                                                                                                                                                                                                                                                          |
|                | Input voltage                              | 100-240 VAC                                                                                                                                                                                                                                                       |
|                | Input frequency                            | 60-50 Hz                                                                                                                                                                                                                                                          |
|                | Current consumption                        | 0.5-0.3 A                                                                                                                                                                                                                                                         |

## MORE VARIANTS

| Description                                                                                                                                                | Article number |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-IP-CON-C-DVI-I</b><br>KVM-over-IP console module to receive DVI-I signals, transmission via CAT cable and over IP-based networks               | A1120626       |
| <b>VisionXS-IP-CON-C-DVI-I-AR-DT</b><br>KVM-over-IP console module to receive DVI-I signals, transmission via CAT cable and over IP-based networks         | A1120496       |
| <b>VisionXS-IP-CON-C-DVI-I-AR-DT fanless</b><br>KVM-over-IP console module to receive DVI-I signals, transmission via CAT cable and over IP-based networks | A1120511       |
| <b>VisionXS-IP-CON-C-DVI-I-DT</b><br>KVM-over-IP console module to receive DVI-I signals, transmission via CAT cable and over IP-based networks            | A1120628       |
| <b>VisionXS-IP-CON-C-DVI-I-DT-PoE</b><br>KVM-over-IP console module to receive DVI-I signals, transmission via CAT cable and over IP-based networks        | A1120630       |
| <b>VisionXS-IP-CON-C-DVI-I-PoE</b><br>KVM-over-IP console module to receive DVI-I signals, transmission via CAT cable and over IP-based networks           | A1120629       |

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## 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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