

# VISIONXS-CON-F(S)-DVI-I-AR-U2-DT

KVM extenders, Article number A1120574



Front



Back

The matrix-compatible KVM extenders of the VisionXS-DVI-I 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). 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-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 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 use of a GenericUSB device via a console module. For this, both the used console module and the used computer module must support the use of a GenericUSB device.
- USB 2.0 with Hi-Speed (separate transmission line, transparent, all USB classes)

### TRANSMISSION

- The transmission distance is up to 5,000 meters over fiber singlemode optics, incl. transmission module(s)/SFP transceiver(s)

### 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)
- The devices are compatible with the ControlCenter-Digital and ControlCenter-Compact series (matrix operation) and other end devices for computer and workplace connections (extender operation)
- 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



## WARRANTY

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

## FEATURES

### SECURITY FEATURES

- 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
- 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
- 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

## 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)

### SYSTEM EXTENSION

- Transm. Redundancy Option (comparable to UC/CON-2): Devices are prepared for transmission redundancy without additional hardware and can be activated via software feature key.
  - Computer modules can connect to various counterparts, such as compatible console modules or KVM matrix switches
  - Console modules can connect to different counterparts, such as compatible computer modules or KVM matrix switches, with switching controlled via hotkey or automatically depending on configuration
  - U2 variants do not support the Transm. Redundancy Option as the 2nd transmission interface is used for the transmission of USB 2.0 data
- You can integrate the matrix-compatible extenders into a complete installation with a ControlCenter-Compact or ControlCenter-Digital, 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 (transparent) |
| USB Devices - 2      | USB-A socket 2.0     | Port for USB devices (transparent) |
| 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       | LC-Duplex socket  | Data transmission to computer module or matrix switch (FIBER) |
| Transmission 2       | LC-Duplex socket  | Separate USB transmission to computer module (FIBER)          |
| 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<br>KVM matrix systems |
|               | Number of workstations          | 1                                   |
| Input options | USB mouse                       | yes                                 |
|               | USB keyboard                    | yes                                 |
| Transmission  | Number of transmission channels | 2                                   |
|               | Redundant transmission channels | no redundant KVM transmission       |
|               | Range                           | 5000 m (9/125µm, OS1)               |
|               | Laser class                     | Class 1                             |
|               | Type of interface               | LC-Duplex                           |
|               | Wavelength                      | 1310 nm                             |
|               | KVM matrix system component     | Console module                      |
|               | Medium                          | Fiber SM                            |
|               | Data rate                       | 2.5 Gbit/s                          |
| Video output  | Number of video channels        | 1                                   |
|               | Format                          | Singlelink DVI                      |
|               | Colour depth                    | 24 bit                              |
|               | Pixel rate                      | ca. 25 MHz to ca. 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)<br>Further VESA and CTA standardised resolutions possible within video bandwidth/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 2 | Separate USB transmission port | yes                                                                                                                                                                                                                                            |
|       | Specification                  | USB 2.0                                                                                                                                                                                                                                        |
|       | Medium                         | Fiber SM                                                                                                                                                                                                                                       |
|       | Transmission rate              | 480 Mbit/s (Hi-Speed)                                                                                                                                                                                                                          |
|       | Range                          | max. 5000 m                                                                                                                                                                                                                                    |
|       | Power (output)                 | 500 mA (HighPower)                                                                                                                                                                                                                             |
|       | USB classes                    | All                                                                                                                                                                                                                                            |
| USB   | Specification                  | USB 2.0                                                                                                                                                                                                                                        |
|       | GenericUSB support             | 1 device                                                                                                                                                                                                                                       |

|             |                          |                                                                       |
|-------------|--------------------------|-----------------------------------------------------------------------|
|             | Medium                   | Embedded                                                              |
|             | Transmission rate        | 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                | 115200 bps                                                            |
|             | Signals                  | TxD<br>RxD<br>RTS<br>CTS<br>GND<br>5V                                 |
| Network     | Medium 1                 | CAT5<br>CAT6<br>CAT7                                                  |
|             | Data rate 1              | 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                                                                  |

|                      |                            |                                                                                                                                                                                                                                                                   |
|----------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating conditions | Operating temperature      | 5 °C to 45 °C                                                                                                                                                                                                                                                     |
|                      | Operating air humidity     | 20 % to 80 %, non-condensing                                                                                                                                                                                                                                      |
|                      | Area of application        | Interior                                                                                                                                                                                                                                                          |
|                      | Maximum operating altitude | 3048m above sea level                                                                                                                                                                                                                                             |
|                      | Storage temperature        | -20 °C to 60 °C                                                                                                                                                                                                                                                   |
|                      | Storage air humidity       | 15 % to 85 %, non-condensing                                                                                                                                                                                                                                      |
|                      | MTBF                       | 200000 h at 25°C                                                                                                                                                                                                                                                  |
|                      | Conformities               | 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)<br>UKCA compliant (see downloads) |
| Power supply         | Input voltage              | 12 VDC                                                                                                                                                                                                                                                            |
|                      | Current consumption        | 1.8 A                                                                                                                                                                                                                                                             |
| Power supply 2       | Input voltage              | 100-240 VAC                                                                                                                                                                                                                                                       |
|                      | Input frequency            | 60-50 Hz                                                                                                                                                                                                                                                          |
|                      | Current consumption        | 0.5-0.3 A                                                                                                                                                                                                                                                         |

## MORE VARIANTS

| Description                                                                                                  | Article number |
|--------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionXS-CON-F(S)-DVI-I</b><br>Console module to receive DVI-I signals via fiber singlemode               | A1120572       |
| <b>VisionXS-CON-F(S)-DVI-I-AR-DT</b><br>Console module to receive DVI-I signals via fiber singlemode         | A1120573       |
| <b>VisionXS-CON-F(S)-DVI-I-AR-DT fanless</b><br>Console module to receive DVI-I signals via fiber singlemode | A1120505       |
| <b>VisionXS-CON-F(S)-DVI-I-AR-U-DT</b><br>Console module to receive DVI-I signals via fiber singlemode       | A1120575       |
| <b>VisionXS-CON-F(S)-DVI-I-DT</b><br>Console module to receive DVI-I signals via fiber singlemode            | A1120576       |
| <b>VisionXS-CON-F(S)-DVI-I-U</b><br>Console module to receive DVI-I signals via fiber singlemode             | A1120577       |
| <b>VisionXS-CON-F(S)-DVI-I-U-DT</b><br>Console module to receive DVI-I signals via fiber singlemode          | A1120580       |
| <b>VisionXS-CON-F(S)-DVI-I-U2</b><br>Console module to receive DVI-I signals via fiber singlemode            | A1120578       |
| <b>VisionXS-CON-F(S)-DVI-I-U2-DT</b><br>Console module to receive DVI-I signals via fiber singlemode         | A1120579       |

# 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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