

# KVM solutions



## KVM solutions for control rooms

process control  
energy suppliers  
industry automation

G&D IF IT'S KVM







## G&D IF IT'S KVM

Guntermann & Drunk is regarded as one of the leading manufacturers of digital and analogue KVM equipment used in control rooms for industrial process control, in air traffic control, broadcast studios and on ships.

With a broad portfolio of powerful devices to extend, switch and distribute keyboard, video and mouse signals and many years of experience in equipping control rooms, users can benefit from G&D's solutions and their real added value.



## KVM solutions for:

- control rooms
- process control
- industry automation
- energy suppliers
- medical applications

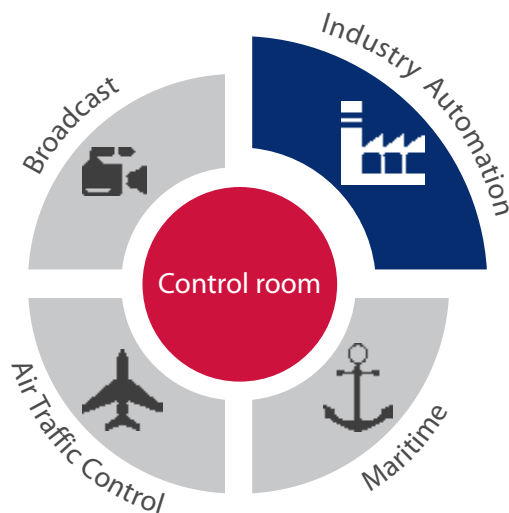
G&D offers the largest KVM product portfolio at the market.

All G&D products as well as their variants are compatible with each other and can be combined even in largest applications.

G&D KVM solutions optimise your IT equipment and increase productivity for man and machine. If you need the best possible KVM equipment, then ask for G&D – from professionals to professionals.

## G&D is considered a top performer regarding:

- Failure safety, redundancies and preventive monitoring
- Reliable 24/7 operation especially during live broadcasts
- Highest quality requirements regarding long operating times and life of products
- Broad range of helpful functions that provide even more flexibility and usability



### KVM extenders

Products for extending computer signals over long distances

- DP1.2-VisionXG
- DP1.2-Vision / DP-Vision
- DL-DVI-Vision / DVI-Vision
- DP-Vision-IP

### KVM switches

Products for operating multiple computers by one workplace

- DP1.2-MUX3-ATC
- DP1.2-MUX-NT
- DL-DVI-MUX-NT
- DVIMUX

### KVM matrix systems

Products for simultaneously operating multiple computers via multiple workplaces

- ControlCenter-Compact
- ControlCenter-Digital
- ControlCenter-IP
- CrossDisplay-Switching

### KVM add-ons

Products for increasing productivity of various KVM applications

- Preventive monitoring and SNMP
- Screen-Freeze function
- HK-Controller



# KVM solutions for safe and efficient control room operations

## **Reliable products – 24/7**

Any control room application – we have the fitting solution. Monitoring complex processes requires permanent control and coordination.

Therefore employees need the best ergonomic conditions supporting them in their important tasks during which they need to stay focussed and react fast.

## **Efficient and user-friendly**

High-end KVM products from Guntermann & Drunk are optimised to be applied in these environments. They can easily be called the spine of computer technology in control rooms. To make working in control rooms even more efficient and ergonomic, we recommend separating computers from operators.

If some computers are to be assigned to particular employees various KVM extender systems (see figure on the right) can be applied according to the transmitted video signal or transmission medium (optical fibres or CAT cables). Extender systems establish a direct connection to the console using existing cable structures or IP networks.

## **Tailored solutions**

Users benefit from maximum performance and usability since KVM systems enable them to work flexibly and without any distractions. We even have fitting solutions if you need to monitor multiple computers and processes at the same time. Here, KVM switches come in handy. With one switch

only, users can operate up to eight computers using one keyboard and one mouse. Depending on requirements, products transmit up to four video channels. Switching between channels takes place by pressing a button at the front of the device, hotkeys or using an external device.

## **Worldwide unique function**

With the innovative CrossDisplay-Switching as a part of the TradeSwitch function, users can use the mouse to easily switch between channels. The mouse acts as if on a “virtual desktop” and can be moved seamlessly across the connected displays. Moving the cursor from active to another display, the keyboard mouse focus automatically switches to the connected computer. Now users can create a multi-monitor console and need only one keyboard and one mouse to operate all computers.

Being the first manufacturer worldwide to implement monitoring and SNMP functions, our devices help you monitor

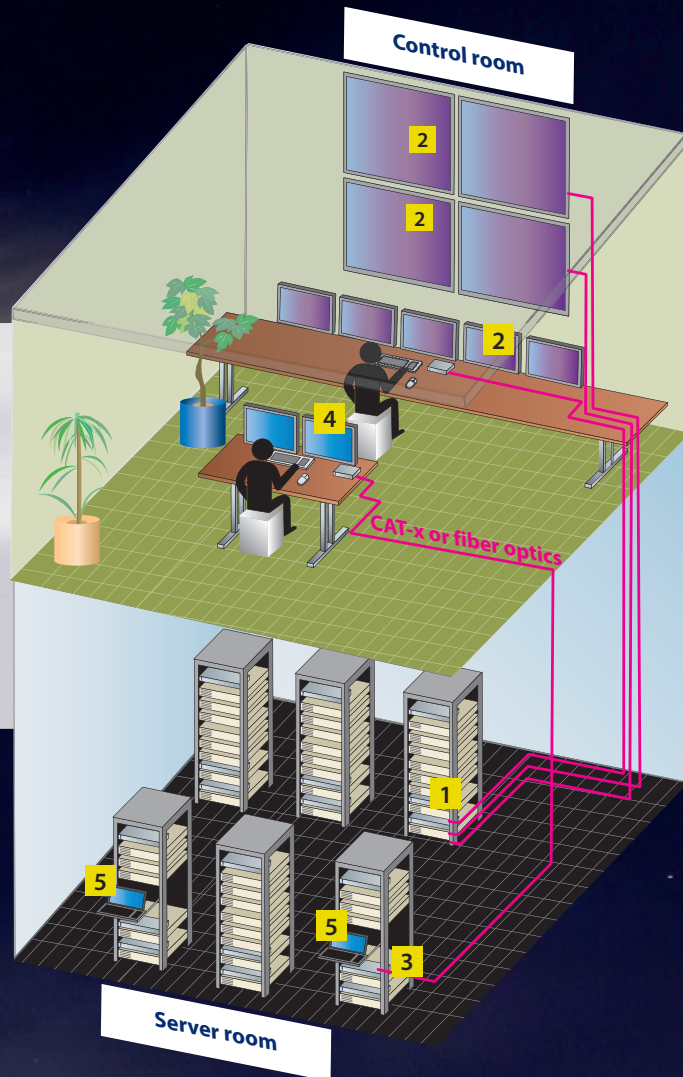
- Device statuses of G&D products
- Device statuses of connected peripherals

Now administrators can already react to critical values (e. g. increased temperatures, errors in the communication with the keyboard interface or problems with redundant systems) before they lead to failures.





- 1 KVM matrix system
- 2 KVM matrix console module
- 3 KVM extender, transmitter
- 4 KVM extender, receiver
- 5 KVM TFT keyboard drawer, RackConsole





# KVM solutions in the industry

## KVM in the chemical industry | Moving computers out of control rooms



In the chemical industry, safety is extremely important. Several control centres monitor all production processes and systems, record their values and analyze them. If necessary, the team working in the control room must be able to react within seconds. Thus, control rooms in the chemical industry are always a sensitive area. Critical processes and sensitive data need to be monitored continuously. Powerful computers are essential and constitute the backbone of each control room application.

By applying KVM equipment, computers can be easily moved out of control rooms to be placed in separate, air-conditioned technology rooms. Extenders and matrix switch systems make the remote computers available at the workstations in the control room.

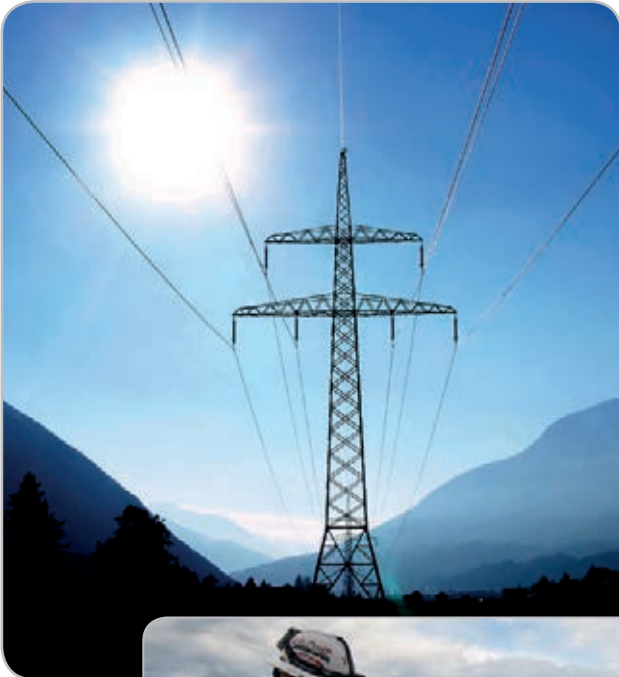
G&D KVM equipment seamlessly adapts with any IT installations in control rooms in the chemical industry. Being a hidden supporter in the background, KVM lets you monitor complex processes and facilitates maintaining the large number of computers required for the sophisticated tasks in this industry.

### Customer benefits:

- Computers are stored in secured equipment rooms where sensitive data is protected
- Removing computers from workplaces facilitates the administration and configuration of computers from one central console
- Employees in control rooms have remote access to their computers
- With a matrix switch system, different users can access multiple computers, access rights can be assigned individually
- Employees need only one set of keyboard/mouse to access all computers thus saving space and peripheral devices at workstations
- Users are able to work more efficiently without being distracted by the noise and waste heat of powerful processors and are no longer disturbed by maintenance staff



## KVM for energy suppliers | Reliable products for 24/7 operation



Every day, energy suppliers provide power, gas and heat to millions of people. Here, everything needs to work without any interruptions – 24/7, 365 days a year. In addition to securing the voltage level and the load distribution, employees in the control room are responsible for monitoring all resources. Complex control centres and data management systems require many computers and various peripherals.

With the help of KVM equipment such as KVM matrix switches, it is possible to remove complex computer installations from the workstations and place them in a separate, specially equipped technology room. The distance to the remote computers is bridged by computer modules and user modules connected to the central matrix via CAT cables or optical fibres. By applying these user modules, users operate their computers as if they were placed at their workstations.



In control rooms of energy suppliers, KVM products are used to separate humans and computers. Despite this separation, users are still able to operate their computers remotely. And yet performance, colours and images remain stable and reliable. Any data is transmitted over existing cabling.

### Advantages for more safety

- Remote access to computers independently network
- Absolutely reliable video quality of transmitted data
- Seamless integration of existing systems

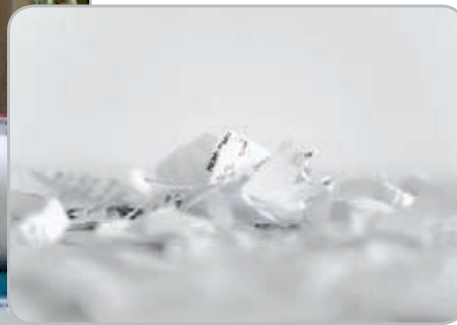


# KVM solutions in the industry

## KVM in the paper industry | optimised working conditions in control rooms



Producing paper requires up to 60 steps that need to be constantly monitored. Due to the rough production environment, valuable computer equipment needs to be stored in clean and cool technology rooms.



### Advantages of applying KVM

- Operating computers without any delays
- Monitoring all processes and sequences in real-time
- Reducing maintenance costs since all computers can be accessed from one central location
- Reducing downtimes by placing the equipment in clean server racks
- Facilitating operation through simple plug and play devices
- Real-time monitoring of system statuses always possible; defined thresholds warn users before any issues can lead to unscheduled system downtime.





## KVM in medical applications | Improving working conditions of medical staff



In the medical field, IT installations are required in practices, clinics for special diagnostics or simulation rooms. Regardless of the individual characteristics or requirements, they all have one thing in common: The medical staff requires a user-friendly and ergonomic environment to be able to focus on their tasks and make the right decisions.

KVM products have many advantages: The staff has full access to the medical applications and thus can carry out its important work without the need for computers to be installed directly under desks. The employees are not disturbed by the noise of computer fans or dust, which keeps the working environment hygienically clean. Since the computers are placed in a remote equipment room, they are always ready to be maintained without disturbing doctors in their work.



Hospitals usually require an endless amount of IT equipment. Multiple data streams are recorded continuously. Special applications need to run on different computers. Here, aspects like the image quality for diagnostic procedures are extremely important. X-rays or MRI scans require large screens with high resolutions.

### How KVM improves medical IT installations

- Full control of all processes even from remote locations
- Remote access to information, programs and examination applications makes work more efficient
- User-friendly and ergonomic workplaces without wasted heat and noise from computers let users focus on their work
- IT administrators have easy access to maintain computers
- Saves space by removing computers into server racks
- Clean rooms are not polluted by computer emissions
- No dust from computer fans, the working environment remains hygienic and sterile

## KVM solutions in the industry

### KVM in traffic control | Enabling progress

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If you've ever placed your computer outside of your office, you might be aware of the noise produced by powerful equipment. Being constantly exposed to noise and heat emissions affects the work of every employee.

Every day, employees in traffic control rooms monitor hundreds of warning signals and cameras, collect and analyse important data and use it to keep the traffic flowing. Control rooms in traffic control regulate the traffic in big cities and show alternative routes.

The monitored video sources in the control room couldn't be any more complex. That's why the user stations need to be ergonomic and provide an ideal overview. Hence, computers and users shouldn't be placed in the same room. Yet every user must be able to access and operate all computers.

### KVM in the automotive industry | Improving working conditions

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In the automotive industry, high quality is a basic requirement. All production steps are closely monitored, evaluated and analysed. Production down-times or, even worse, system failures can have fatal consequences. All processes are monitored, analysed and optimised from a central control room. Here, safety and continuity are extremely important.

KVM carries out an important task in the automotive industry. In the control room of factories producing cars, KVM products are the „invisible“ supporters in the background – always there and always ready to use. Wherever many processes have to be controlled and monitored at the same time, many computers are required.

KVM optimizes the work in the control room by helping remove computers into separate technology rooms. The computers are accessed remotely – without any delays or loss of quality, as if the computers were still placed in the same room. This creates optimal conditions for employees and machines. Now the control room staff can continue their work without being exposed to the heat emissions and loud background noises of the computers.



## KVM in the steel industry | Increasing the efficiency by accessing remotely



Whenever multiple production processes take place and need to be monitored and operated from various locations, KVM products are an essential part of the IT installation. The steel industry poses special challenges to any equipment in use: All products must be ready to face a rough environment.

The equipment needs to be extremely robust, reliable, fail-proof and intuitive to operate. On top of dealing with the extreme environment, KVM devices must be able to resist interference radiation and work reliably without any failures. In addition, control rooms require a large number of computers, many peripherals as well as other hardware.

To optimize both the production processes and the ones in the control room, the computers are moved out of the control room and into central server racks. An important advantage of applying KVM devices: Especially at large production sites with distributed locations, IT administrators can access the computers from one room to keep downtimes and configurations to a minimum.



### Ideal to be used in the steel industry:

- KVM extender: DVI-Vision-CAT / Fiber
- KVM matrix system: ControlCenter-Digital
- KVM Matrix system: ControlCenter-Compact





### KVM extenders

Digital and analog extenders enable you to operate your computers over distances up to 10,000 m whilst maintaining real-time performance. The systems consist of a transmitter and a receiver module. A local console at the transmitter module placed in the server room makes it easy for the IT staff to maintain the system.

KVM extenders transmit the following computer signals:

- DisplayPort™1.2a + 1.1a, HDMI, DVI (single link & dual link) and VGA
- Keyboard/mouse (PS/2 & USB)
- USB 2.0 transparent
- Audio & RS232
- Distances up to 10,000 m and more
- Real time performance
- Remote power switching sequences
- For up to four video channels
- Predictive maintenance via SNMP and Monitoring
- Redundant power supply
- Two network interfaces
- Screen-Freeze function
- Transparent transmission of E-DDC information
- Ident LED for locating device in large installations

### KVM switches

DP, DVI and VGA KVM switches are designed to operate 2 to 64 computers via one console consisting of keyboard, monitor and mouse. Our DVI switches also transmit VGA video signals and so enable users to work in mixed mode.

These stand-alone devices switch the following computer signals:

- DisplayPort™1.2a + 1.1a, DVI (single link & dual link) and VGA
- Keyboard/mouse (PS/2 & USB)
- USB 2.0 transparent, USB 3.0 transparent
- Audio
- Mixed operation of DP, DVI and VGA on input and output side
- Available as variants transmitting 1, 2, 3 or 4 video channels
- Work in a user-friendly and ergonomic environment and have less peripherals at your desk





### KVM matrix systems

With KVM matrix systems you can access multiple computers over multiple user consoles simultaneously. They consist of computer modules, central modules and user modules. G&D products allow a flexible operation of large, distributed IT installations even with multiple user consoles connected.

Our KVM matrix systems transmit the following signals:

- DisplayPort™ 1.2a + 1.1a, HDMI, DVI (single link & dual link), bidirectional signals and VGA
- Keyboard/mouse (PS/2 & USB)
- Audio
- RS232 and USB 2.0 transparent
- USB 3.0 transparent (CCD-160 + CCD-288)
- Up to 10,000 m by fiber optics
- Available as variants transmitting multi-channel video
- Several thousand computers can be connected in cascading or with the KVM Matrix-Grid™
- Remote access (local and over IP)
- Push-Get function to show screen contents on other monitors or large screen projections
- Intuitive switching via CrossDisplay-Switching



### KVM add-ons

Add-on products increase productivity and efficiency of computer application.

G&D provides the following add-on products:

- TFT-RackConsoles for DisplayPort, single link DVI and VGA; 17" display requires only 1 HU
- Programmable input devices for optimised device control
- Solutions for space-saving rack fasteners
- Easy switching of KVM switches by pressing a button (Operator Panel)
- Centralized, proactive monitoring and configuration of network-capable G&D devices
- Integration of your individual applied operating concepts (e.g. via touch panels)



With the most reliable and proven G&D KVM extenders, you can access computers from a distance of up to

10,000 m in real time without loss of quality. A system always consists of a transmitter and a receiver module.

## Common features of the digital extenders

- Range up to 140 m via CAT and up to 10,000 m via fiber optics
- Single- and multi-channel variants
- E-EDID support
- Redundant power supply
- Ident LED to quickly find devices in complex installations
- Screen-Freeze function
- Operation and configuration via web interface and OSD
- Network interface
- Mix & Match – can be operated in extender or matrix mode

## The digital extenders transmit the signals:

- Keyboard/mouse (USB & PS/2)
- Audio stereo bidirectional
- RS232 transparent
- USB 2.0 transparent (optional)
- Generic USB HID

## DP1.2-VisionXG

### Extension of DisplayPort™ uncompressed via optical fiber

- Resolution per channel up to 4096 x 2160 @ 60 Hz (4K @ 60 Hz), 3840 x 2160 @ 60 Hz (Ultra-HD @ 60 Hz)\*
- Supports 4K and UltraHD resolutions at 60 Hz
- Supports 8K resolutions at 30 Hz using two video channels
- Supports 8K resolutions at 60 Hz using four video channels
- Uncompressed, transparent image transmission for perfect latency-free images – pixel by pixel
- Generic implementation of DDC/CI information possible
- Supports nVidia 3D-Vision 120Hz: 1680 x 1050 @ 120Hz
- Ventilation concept for the use in cold/hot aisle installations

## The DP1.2-VisionXG also extends the signals:

- DisplayPort™1.2a video
- Embedded audio on DisplayPort up to stereo PCM



DP1.2-VisionXG-Fiber-MC2



DP1.2-VisionXG-Fiber-MC4





With the most reliable and proven G&D KVM extenders, you can access computers from a distance of up to

10,000 m in real time without loss of quality. A system always consists of a transmitter and a receiver module.



**The DP1.2-Vision also extends the signal:**

- DisplayPort™1.2a video

**The DP-Vision also extends the signal:**

- DisplayPort™1.1a video



DP1.2-Vision-CAT

**DP1.2-Vision + DP-Vision**

**DisplayPort™ via CAT or fiber optics**

- **DP1.2-Vision** exemplary resolutions:  
4096 x 2160 @ 60 Hz (4K @ 60 Hz),  
3840 x 2160 @ 60Hz (U-HD @ 60 Hz)\*
- **DP-Vision** exemplary resolution:  
2560 x 1600 @ 60 Hz\*
- Transmission is compressed, pixel perfect, with low latency and ideal hand eye coordination
- Embedded audio on DisplayPort up to stereo PCM

**DL-DVI-Vision + DVI-Vision**

**Digital dual link or single link video via optical fiber or CAT cable**

- **DL-DVI-Vision:**  
Resolution up to 2560 x 1600 @ 60 Hz and 1280 x 1024 @ 85 Hz\*
- **DVI-Vision:**  
Resolution up to 1920 x 1200 @ 60 Hz and 1280 x 1024 @ 85 Hz (incl. FULL HD, 1080p)\*
- Supports digital and analog monitors at the console

**The DL-DVI-Vision also extends the signal:**

- Dual link DVI video

**The DVI-Vision also extends the signal:**

- Single link DVI video



DVI-Vision-CAT

**The DP-Vision-IP also extends the signal:**

- DisplayPort™1.1a video

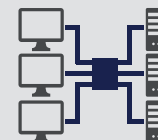


DP-Vision-IP

**DP-Vision-IP**

**DisplayPort signal transmission over standard IP-based networks, CAT/fiber, layer 3**

- Exemplary resolutions:  
2560 x 1600 @ 60 Hz, 2048 x 2048 @ 60 Hz (2K x 2K), 4096 x 2160 @ 30 Hz (4K @ 30 Hz),  
3840 x 2160 @ 30 Hz (Ultra-HD @ 30 Hz),  
1920 x 1200 @ 60 Hz\*
- Signal transmission over standard IP-based networks, CAT/fiber, layer 3
- Unlimited transmission distance, with up to 10,000 meters between 2 active network components (fiber optics)
- Manual bandwidth management to adjust the bandwidth required



KVM matrix systems allow users to operate several computers via several consoles as well as transmit computer signals in real-time over long distances.

The basic system consists of three modular components and can be modulated to your demands.

## ControlCenter-Compact + ControlCenter-Digital

Digital matrix systems for the operation of multiple computers over several consoles

- Transmission via CAT cable up to 140 m between two system components; via fiber optics up to 10,000 m
- Automatic device detection
- System cabling via CAT cables and fiber optics (mixed mode)
- More flexibility with DynamicPort-Technology: from 8 to 288 dynamic ports that can be freely configured for either user or computer connection
- Cascadable to up to 3 levels, expandable through bidirectional cascading over KVM Matrix-Grid™
- Expansion of connected signals through channel grouping

The digital matrix systems ControlCenter-Compact, ControlCenter-Digital and ControlCenter-IP switch the following signals:

- DisplayPort™1.2a + 1.1a
- HDMI (on CC-IP via adapter)
- DVI single link + dual link
- Keyboard/mouse (USB & PS/2)
- VGA (only CCD + CCC)
- Audio bidirectional
- USB 2.0 transparent (only CCD + CCC, for CC-IP in preparation)
- USB 3.0 (only CCD)
- RS232 transparent
- Generic USB HID



ControlCenter-Compact-32F-32C



ControlCenter-Digital-80

## Common features of the ControlCenter-Compact, -Digital and -IP

- Resolution: up to 4096 x 2160 @ 60 Hz depending on computers and consoles
- Monitoring & SNMP
- Two network interfaces (web interface, updates, administration, configuration and monitoring)
- Local console for administration and configuration
- Text based media control over TCP/IP e.g. AMX, Crestron, VSM as KSC-Commander
- Multi monitor workstations incl. CrossDisplay-Switching
- Operation and configuration via web interface and OSD
- Operation via touchscreen possible



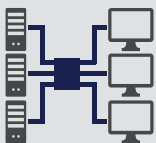
ControlCenter-IP

## ControlCenter-IP

Experience the diverse functionalities of the G&D matrix systems combined with the flexibility of KVM-over-IP™

- The device takes over the central system logic





Operating multiple computers  
from multiple desks

## KVM matrix systems

KVM matrix systems allow users to operate several computers via several consoles as well as transmit computer signals in real-time over long distances.

The basic system consists of three modular components and can be modulated to your demands.



### Specials ControlCenter-Digital

- Modular setup: Controller- and Switchcard, I/O CAT- & I/O Fibre cards, I/O-Card-Multi, I/OCard-Trunk, fan boards and the power supplies are modular and can be replaced
- The system can be adapted or extended during operation
- Up to three redundant power packs that can be changed during operation
- System control logic on a separate controller card and can be easily replaced / switch card can be replaced as well



ControlCenter-Digital-288

### Mix & Match

All digital matrix components are compatible with each other. Computer or user modules for matrix systems can be mixed with extender systems. Extender systems can also be used in the matrix. This provides full flexibility and helps at future-oriented planning of growing systems.



#### Customer benefits:

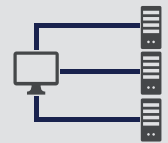
- Easy switching by using the mouse, in addition to switching between channels using hotkeys or the OSD
- Intuitive operation and more efficiency for your workplace
- Multi-monitor workstations can be operated by keyboard-mouse

### CrossDisplay-Switching

With the innovative CrossDisplay-Switching as part of the TS function (DVICenter and ControlCenter range), users can use the mouse to easily switch between channels.

The mouse acts as if on a "virtual desktop" and can be moved seamlessly across the connected displays. Moving the cursor from the active to another display, the keyboard-mouse focus automatically switches to the connected computer. Now users can create a multimonitor console and need only one keyboard and one mouse to operate all computers. The mouse becomes the ultimate intuitive switching tool.

Right from the start, the CrossDisplay switching was not limited in the number of integrated screens, and so now also computers with multi-head graphics are supported. Thus, an unlimited mix of scenarios can be switched from all sources and the user always operates in the visible area and never "flies blind". The configuration is easily adapted to the screen arrangement, and thus does not need to be strictly ordered in row or one above the other. Also in combination with a multiviewer, the flexible CrossDisplay switching can significantly simplify the application.



KVM switches let you operate multiple computers from one console consisting of keyboard, mouse and monitor. Switching is carried out via keyboard hotkeys.

Computers with multi-monitor graphics cards can be connected to multi-channel switches.

## Common features of the DP1.2-MUX3-ATC and MUX-NT switches

- Channel switching via hotkey, SNMP, buttons, OSD, web interface, IP-Control or external serial device
- E-EDID support
- 2 network interfaces
- Suitable for all operating systems
- Web interface for remote configuration and displaying of the Monitoring values and channel switching
- Comprehensive proactive diagnostics by monitoring and SNMP

## The DP1.2-MUX3-ATC + NT variants switch the following signals

- DP1.2, DP1.1a or dual link DVI (depending on model)
- Keyboard/mouse (USB & PS/2)
- USB 3.0 transparent
- Audio analog stereo bidirectional
- Audio embedded (except DL-DVI-MUX-NT)

### DP1.2-MUX3-ATC

#### For up to 3 computers via one console

- Resolution up to 4096 x 2160 @ 60Hz (4K @60 Hz)\*
- Data transfer rate up to 21,6 Gbit/s (DP1.2a) or 10,8 Gbit/s (DP1.1a)
- Instant switching technology

#### The DP1.2-MUX3-ATC also switches the signals:

- DisplayPort™ 1.2a + 1.1a
- Audio ambedded in DisplayPort



Instant switching of DP1.2 signals using unique G&D technology

#### The DP1.2-MUX-NT + DL-DVI-MUX-NT also switch the signals:

- Dual link DVI & VGA video (DL-DVI-MUX-NT) or DisplayPort™ 1.2a + 1.1a (DP1.2-MUX-NT)



DL-DVI-MUX-NT

### DP1.2-MUX-NT + DL-DVI-MUX-NT

#### KVM switches with mission-critical features

- **DP1.2-MUX-NT:**  
Resolution up to 4096 x 2160 @ 60 Hz\*
- Data transfer rate up to 21,6 Gbit/s (DP1.2a) or 10,8 Gbit/s (DP1.1a)
- **DL-DVI-MUX-NT:**  
Resolution up to 4096 x 2160 @ 30 Hz (4K @ 30 Hz) or 2560 x 1600 @ 60 Hz at 24 bit colour depth\*

### DVIMUX

#### Operation of 4 or 8 computers via one console

- Mixed operation of DVI/VGA on input and output side
- Channel switching via hotkey, buttons or external serial device
- DVIMUX8 with on-screen display and broadcast function (for simultaneous configuration and operation of up to 8 computers via one console)
- DVIMUX8 is compliant with IEC 62288 and IEC 60945 (General), IEC 62388 (RADAR) and IEC 61174 (ECDIS)

#### The DVIMUX switches the signals:

- Keyboard/mouse (USB & PS/2)
- Audio bidirectional
- Single link DVI & VGA
- USB 2.0



DVIMUX8



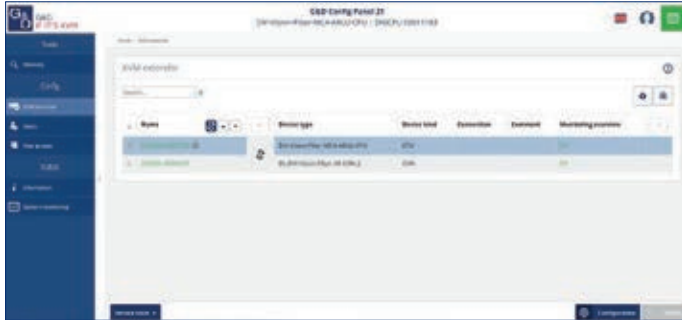


Monitoring, SNMP trap and agent are helpful functions for predictive maintenance of the G&D devices and connected peripherals. Thanks to permanent monitoring,

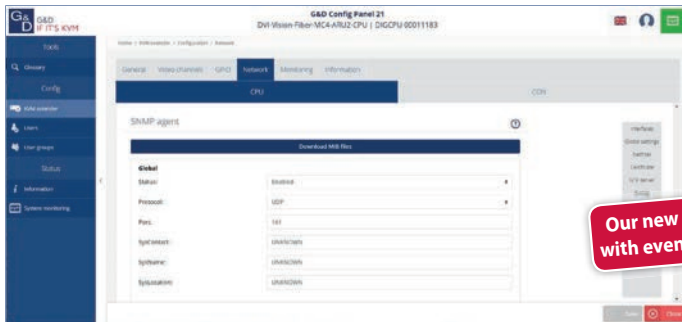
reporting and configuration of G&D devices administrators can react early enough to critical conditions like exceeding temperatures before they lead to failures.



### Web interface with monitoring values



### Network settings for the SNMP agent



Our new ConfigPanel 21  
with even easier handling

### Preventive device monitoring

High operational safety and reliability are essential for G&D devices. The monitoring function of many G&D devices offers the following options:

- Query of system status
- Dispatch these information via SNMP and as Syslog message

These settings can be carried out for each device individually via its web interface. G&D products with monitoring functions provide at least one connection to the network as well as an integrated web interface to configure and monitor the device. Any values of G&D devices are monitored internally and system status messages are continuously transmitted to common trap receivers.

### The following products provide the monitoring function

#### Stand-alone KVM extenders:

- DP1.2-VisionXG
- DP1.2-Vision, DP1.2-Vision-IP
- DP-Vision, DP-Vision-IP
- DL-Vision, DL-Vision-DP
- DL-DVI-Vision, DL-DVI-Vision-IP
- DVI-Vision, DVI-Vision-IP

#### KVM switches:

- DP1.2-MUX3-ATC
- DP1.2-MUX-NT
- DL-DVI-MUX-NT
- DL-MUX

#### KVM matrix systems:

- ControlCenter-Digital and -Compact
- ControlCenter-IP
- DVICenter
- CATCenter NEO
- CompactCenter X2

### SNMP trap & agent

#### Monitoring function for the predictive maintenance

- Defined conditions and exceeded thresholds are stored in the web interface and can be viewed anytime
- SNMP management software receives automatically any status event sent by G&D devices
- Integrated SNMP-GET function enables you to query, for example, the device temperature and to provide statistics on top values as well as to recognise critical values in advance
- SNMP-SET has active impact on a G&D product (for example when changing channels at a KVM Switch)

### Screen-Freeze function


If the display loses the video signal due to a broken connection or a problem with the computer's graphics card, the Screen-Freeze function „freezes“ the image last displayed on the monitor. This status is highlighted by a red semi-transparent frame.

In the meantime, the monitor displays the time and how long the video signal has been down so far. This way, users are still provided with a static image instead of having to wait in front of a blank screen. In control rooms, this possibly allows them to continue working until the issue is solved by the administrator. The function is automatically cancelled when the display receives an active video signal.



## From professionals to professionals:

Trust in our professional solutions - from planning through to aftersales support.

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