# DP1.2-MUX3-ATC-MC4

KVM switches, Article number A2100221

The KVM switch DP1.2-MUX3-ATC lets you operate up to three computers with DisplayPort 1.2 via one workplace. Thanks to the newly developed instant switching technology, the switching process between computers is done in real time. Switching between computers is done either via the push buttons on the front panel, configurable key combinations, the integrated EasyControl tool, XML remote control via API and SNMP, or an additional serial device via the RS232 interface. You can use various Monitoring & SNMP features via the network interfaces. These can also be used to configure the device via the Config Panel.

## SCOPE OF DELIVERY

| Quantity | Description | Article number |
|---|---|---|
| 2 | PowerCable-2 Standard cable 2m | A6300057 |
| 1 | 19" RM-Set-436-3RU | A7000015 |
| 1 | Safety instructions flyer - FCC class B | A9100371 |

# DETAILS

## VIDEO

- EDID data utilization from the workplace monitor
- 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 audio (DisplayPort Digital, unidirectional)
- Transparent audio signals (stereo, analog)
- USB 3.1 gen1 with SuperSpeed, all USB classes

## DEVICE

- Access to standard interfaces of the computer, with no software installation required
- MultiChannel variants (MC): Modules for multi-monitor workplaces with multi-channel video

## WARRANTY

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

# FEATURES

## SECURITY FEATURES

- 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
- Redundant network interface
- Redundant internal power packs
- optional automatic channel switching in case of signal failure
- Freeze function: If the video signal is lost, the last displayed image is frozen and highlighted with a colored frame and timer

## OPERATION FEATURES

- Ready for operation out of the box, no additional configuration required
- Permanent keyboard/mouse emulation ensures a stable system
- 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
- Instant Switching technology for seamless switching of DisplayPort 1.2 video signals

# EXTENSIONS

## SECURITY FEATURES

- 2-Factor-Authentication (2FA) – premium software feature to enhance security by using 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

## CONTROL OPTIONS

- With the OperatorPanel, you can switch your KVM switch comfortably from your desk by pressing a button. Now you can install the switch anywhere to save space.

# TECHNICAL DATA

| | | |
|---|---|---|
| General | Brand | G&D |
| | Product group | KVM switches |
| | Product Family | DP1.2-MUX3-ATC |
| | Country of origin | Germany |
| | Number of workplaces | 1 |
| | Number of sources | 3 |
| | Power Supply | Redundancy without load balancing |
| Input options | USB mouse | yes |
| | USB keyboard | yes |
| | PS/2 mouse | yes |
| | PS/2 keyboard | yes |
| Video input | Quantity | 4 |
| | Format | DisplayPort 1.2 (LBR, HBR, HBR2, SingleStream-Transport (SST)) |
| | Colour depth | 24 bit |
| | 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. Instant Switching technology for seamless switching of DisplayPort 1.2 video signals. |
| | Supported industry standards | Display Data Channel Command Interface (DDC/CI) |
| Video output | Quantity | 4 |
| | Format | DisplayPort 1.2 (LBR, HBR, HBR2, SingleStream-Transport (SST)) |
| | Colour depth | 24 bit |
| | 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 |

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|---|---|---|
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| | General Notes | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.<br>Instant Switching technology for seamless switching of DisplayPort 1.2 video signals. |
| | Supported industry standards | Display Data Channel Command Interface (DDC/CI)<br>Extended Display Identification Data (EDID) |
| Audio 1 | Transmission type | Unidirectional |
| | Resolutions | 24 bit<br>20 bit<br>16 bit |
| | Sampling rate | up to 48 kHz |
| | Audio support | Digital Embedded |
| Audio 2 | Transmission type | Stereo<br>Transparent |
| | Resolutions | 24 bit digital |
| | Sampling rate | up to 96 kHz |
| | Bandwidth | 22 kHz |
| | Audio support | Analog |

| | | |
|---|---|---|
| USB | Separate USB transmission port | no |
| | Specification | USB 3.1 Gen 1 |
| | Transmission rate | max. 5,000 Mbit/s (SuperSpeed) |
| | Power (output) | 900 mA (HighPower) |
| | USB classes | All |
| Network | Quantity | 2 |
| | Medium | CAT5<br>CAT6<br>CAT7 |
| | Data rate | 10 Mbit/s<br>100 Mbit/s<br>1 Gbit/s |
| Maintenance | Update via | ConfigPanel (Network) |
| | Serviceport settings | 115200bps (8/N/1) |
| Housing | Material | Anodised aluminium |
| | Active cooling (fan) | yes |
| | Width ca. | 436 mm / 17.17 in |
| | Height ca. | 132 mm / 5.20 in |
| | Depth ca. | 210 mm / 8.27 in |
| | IP protection class | IP20 |
| | Weight ca. | 4.7 kg / 10.36 lb |
| Operating conditions | Operating environment temperature | 5 °C to 45 °C / 41 °F to 113 °F |

| | | |
|---|---|---|
| | Operating air humidity, non-condensing | 20 % to 80 % |
| | Storage environment temperature | -20 °C to 55 °C / -4 °F to 131 °F |
| | Storage air humidity, non-condensing | 15 % to 85 % |
| | Conformities | CE compliant (see downloads)<br>UKCA 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) |
| Power supply | Quantity | 2 |
| | Type | Internal |
| | Input voltage | 100-240 VAC |
| | Input frequency | 60-50 Hz |
| | Current consumption | 1.4-0.6 A |

# ACCESSORY PRODUCTS

| Image | Description | Article number |
|---|---|---|
| | **USB-Service-2 cable 2m**<br>Cable for system updates and configuration | A6200103 |
| | **CPU-MC4-DP-U3-2 cable MC4-DP 2m**<br>Cable set to connect a computer via its DP, audio, PS/2, USB 2.0 and USB 3.0 interfaces | A6100185 |
| | **CPU-MC4-DP-U-2 cable MC4-DP 2m**<br>Cable set to connect a computer via its DisplayPort, audio and USB interfaces | A6100176 |
| | **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 |
| | **Audio-M/M-2-ferrite cable 2m**<br>Audio connection cable with ferrite core | A6300083 |
| | **Audio-M/M-3-ferrite cable 3m**<br>Audio connection cable with ferrite core | A6300118 |
| | **Audio-M/M-5-ferrite cable 5m**<br>Audio connection cable with ferrite core | A6300085 |
| | **DP1.4-Cable-M/M-2 SK13357 2m**<br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300173 |
| | **DP1.4-Cable-M/M-3 SK13358 3m**<br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300174 |
| | **DP1.4-Cable-M/M-5 SK13359 5m**<br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300175 |
| | **USB-AM/BM-2 cable USB 2m**<br>USB cable, Type-A Plug/Type-B Plug | A6300113 |
| | **USB-AM/BM-3 cable USB 3m**<br>USB cable, Type-A Plug/Type-B Plug | A6300114 |
| | **USB-AM/BM-5 cable USB 5m**<br>USB cable, Type-A Plug/Type-B Plug | A6300111 |

| Image | Description | Article number |
|---|---|---|
| | **USB3.0-AM/BM-1 cable USB3.0 1m**<br>USB3.0 cable, Type-A Plug/Type-B Plug | A6300144 |
| | **USB3.0-AM/BM-2 cable USB3.0 2m**<br>USB3.0 cable, Type-A Plug/Type-B Plug | A6300145 |
| | **USB3.0-AM/BM-3 cable USB3.0 3m**<br>USB3.0 cable, Type-A Plug/Type-B Plug | A6300146 |

## MORE VARIANTS

| Description | Article number |
|---|---|
| **DP1.2-MUX3-ATC**<br>KVM switch to operate up to 3 computers with DisplayPort1.2 interface via one console | A2100189 |
| **DP1.2-MUX3-ATC-MC2**<br>KVM switch to operate up to 3 computers with 2 DisplayPort1.2 interfaces each via one console | A2100190 |
| **DP1.2-MUX3-ATC-MC2-R**<br>KVM switch to operate up to 3 computers with 2 DisplayPort1.2 interfaces each via one console | A2100211 |
| **DP1.2-MUX3-ATC-MC3**<br>KVM switch to connect 3 CPUs with triple digital video signal | A2100220 |
| **DP1.2-MUX3-ATC-MC3-R**<br>KVM switch to connect 3 CPUs with triple digital video signal | A2100219 |
| **DP1.2-MUX3-ATC-R**<br>KVM switch to operate up to 3 computers with DisplayPort1.2 interface via one console | A2100210 |

# 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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