# DP1.4-MUX4-MC4-USB

KVM switches, Article number A2100176



Front



Back

The KVM switch DP1.4-MUX4 lets you operate up to four computers with DisplayPort 1.4 via one workplace. Switching between computers is done either via the push buttons on the front panel, configurable key combinations or a serial device.

## SCOPE OF DELIVERY

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

# DETAILS

## VIDEO

- EDID data utilization from the workplace monitor
- Resolution up to
  7680 × 4320 @ 30 Hz,
  5120 × 2880 @ 60 Hz,
  2560 × 1440 @ 144 Hz,
  1920 × 1080 @ 240 Hz
- Resolution up to
  7680 × 4320 @ 30 Hz,
  5120 × 2880 @ 60 Hz,
  2560 × 1440 @ 144 Hz,
  1920 × 1080 @ 240 Hz

## SIGNALS

- Bidirectional audio signals (stereo)
- Embedded stereo audio (DisplayPort Digital, LPCM 2/4/6/8 channels)
- USB 2.0 with full speed, all USB classes

## DEVICE

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

## SYSTEM UPDATE

- Flash upgrade via the device

## WARRANTY

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

# FEATURES

## OPERATION FEATURES

- Ready for operation out of the box, no additional configuration required
- Permanent keyboard/mouse emulation ensures a stable system

# EXTENSIONS

## 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 | DP1.4-MUX |
| | Country of origin | Germany |
| | Number of workplaces | 1 |
| | Number of sources | 4 |
| Input options | USB mouse | yes |
| | USB keyboard | yes |
| | PS/2 mouse | no |
| | PS/2 keyboard | no |
| Video input | Quantity | 4 |
| | Format | DisplayPort 1.4 (LBR, HBR, HBR2, HBR3, SingleStream-Transport (SST), MultiStream-Transport (MST), Display Stream Compression (DSC)) |
| | Colour depth | 24 bit |
| | Pixel encoding | RGB 4:4:4 (24 bpp / 8 bpc) |
| | Pixel rate ca. | 25 MPixel/s to 1080 MPixel/s |
| | Vertical frequency | 20 Hz to 240 Hz |
| | Horizontal frequency | 25 kHz to 390 kHz |

| | | |
|---|---|---|
| | Exemplary resolutions | 7680 × 4320 (30 Hz)<br>5120 × 2880 (60 Hz)<br>4096 × 2160 (60 Hz)<br>3840 × 2160 (120 Hz)<br>3840 × 2160 (60 Hz)<br>2560 × 1600 (60 Hz)<br>2560 × 1440 (240 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) |
| | General Notes | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
| | Supported industry standards | Extended Display Identification Data (EDID)<br>Display Data Channel Command Interface (DDC/CI)<br>Display Data Channel (DDC) |
| Video output | Quantity | 4 |
| | Format | DisplayPort 1.4 (LBR, HBR, HBR2, HBR3, SingleStream-Transport (SST), MultiStream-Transport (MST), Display Stream Compression (DSC)) |
| | Colour depth | 24 bit |
| | Pixel encoding | RGB 4:4:4 (24 bpp / 8 bpc) |
| | Pixel rate ca. | 25 MPixel/s to 1080 MPixel/s |
| | Vertical frequency | 20 Hz to 240 Hz |
| | Horizontal frequency | 25 kHz to 390 kHz |

| | | |
|---|---|---|
| | Exemplary resolutions | 7680 × 4320 (30 Hz)<br>5120 × 2880 (60 Hz)<br>4096 × 2160 (60 Hz)<br>3840 × 2160 (120 Hz)<br>3840 × 2160 (60 Hz)<br>2560 × 1600 (60 Hz)<br>2560 × 1440 (240 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) |
| | General Notes | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
| | Supported industry standards | Extended Display Identification Data (EDID)<br>Display Data Channel Command Interface (DDC/CI)<br>Display Data Channel (DDC) |
| Audio 1 | Transmission type | Bidirectional<br>Stereo |
| | Resolutions | 24 bit digital |
| | Sampling rate | up to 96 kHz |
| | Bandwidth | 22 kHz |
| | Audio support | Analog |
| Audio 2 | Transmission type | LPCM (2/4/6/8 channels)<br>Stereo |
| | Resolutions | 24 bit<br>20 bit<br>16 bit |

| | | |
|---|---|---|
| | Sampling rate | up to 32 kHz<br>up to 44.1 kHz<br>up to 48 kHz<br>up to 88.2 kHz<br>up to 96 kHz<br>up to 176.4 kHz<br>up to 192 kHz |
| | Audio support | Digital Embedded |
| USB | Separate USB transmission port | no |
| | Specification | USB 2.0 |
| | Transmission rate | max. 16 Mbit/s (Full Speed) |
| | USB classes | All |
| Maintenance | Update via | Update Wizard (service interface) |
| | Serviceport settings | 115200bps (8/N/1) |
| Housing | Material | Anodised aluminium |
| | Active cooling (fan) | no |
| | Width ca. | 270 mm / 10.63 in |
| | Height ca. | 132 mm / 5.20 in |
| | Depth ca. | 210 mm / 8.27 in |
| | IP protection class | IP20 |
| | Weight ca. | 2.15 kg / 4.74 lb |
| Operating conditions | Operating environment temperature | 5 °C to 45 °C / 41 °F to 113 °F |
| | Operating air humidity, non-condensing | 20 % to 80 % |

| | | |
|---|---|---|
| | Area of application | Indoor use |
| | Maximum operating altitude above sea level | 3,048 m |
| | Storage environment temperature | -20 °C to 60 °C / -4 °F to 140 °F |
| | Storage air humidity, non-condensing | 15 % to 85 % |
| | MTBF | 200,000 h at 25°C (77 °F) |
| | 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 | 1 |
| | Type | Internal |
| | Input voltage | 100-240 VAC |
| | Input frequency | 60-50 Hz |
| | Current consumption | 0.4-0.2 A |
| | Power consumption max. | 22 W |
| | Heat output max. | 10 W / 34.12 BTU/h |

# ACCESSORY PRODUCTS

| Image | Description | Article number |
|---|---|---|
| | **USB-Service-2 cable 2m**<br>Cable for system updates and configuration | A6200103 |
| | **PowerCable-3 Standard cable 3m**<br>Cable to connect the power supply type Germany | A6300066 |
| | **PowerCable-5 Standard cable 5m**<br>Cable to connect the power supply type Germany | A6300065 |
| | **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 |
|  | **19" RM-Set-270-3RU**<br>19" extension for rack mounting devices of 270 mm width within 3RU (132 mm height) | A7000046 |

# MORE VARIANTS

| Description | Article number |
|---|---|
| **DP1.4-MUX4-MC2-USB**<br>KVM switch to operate up to 4 computers with 2 DisplayPort1.4 interfaces each via one console | A2100174 |
| **DP1.4-MUX4-MC2-USB-R**<br>KVM switch to operate up to 4 computers with 2 DisplayPort1.4 interfaces each via one console | A2100206 |
| **DP1.4-MUX4-MC3-USB**<br>KVM switch to operate up to 4 computers with 3 DisplayPort1.4 interfaces each via one console | A2100175 |
| **DP1.4-MUX4-USB**<br>KVM switch to operate up to 4 computers with DisplayPort1.4 interface via one console | A2100173 |
| **DP1.4-MUX4-USB-R**<br>KVM switch to operate up to 4 computers with DisplayPort1.4 interface via one console | A2100207 |

# CONTACT

## WE ARE HERE FOR YOU!

If you have any further questions, we are looking forward to advising you on your individual project requirements.

### TECHNICAL SALES

Tel.: +1-833-928-1976
Fax: +1-833-928-1976
E-Mail: sales.us@gdsys.com

### HEADQUARTERS

Panoptec Europe GmbH
Obere Leimbach 9 | 57074 Siegen | NRW | Deutschland

Tel.: +49 271 23872-0
Fax: +49 271 23872-120
E-Mail: sales@panoptec.com

### US OFFICE

G&D North America Inc.
4540 Kendrick Plaza Drive | Suite 100
Houston, TX 77032 | United States

Tel.: +1-346-620-4362
E-Mail: sales.us@gdsys.com

### MIDDLE EAST OFFICE

Panoptec Europe GmbH
Dubai Studio City | DSC Tower
12th Floor, Office 1208 | Dubai, UAE

Tel.: +971 4 5586178
E-Mail: sales@panoptec.com

### APAC OFFICE

Panoptec Europe GmbH
60 Anson Road #17-01
Singapore 079914

Tel.: +65 9685 8807
E-Mail: sales@panoptec.com