

# DP1.4-MUX4-NT-R

KVM switches, Article number A2100218



The KVM switch DP1.4-MUX4-NT 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, 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-436-1RU             | A7000003       |

## 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

- Embedded stereo audio (DisplayPort Digital, LPCM 2/4/6/8 channels)
- Transparent audio signals (stereo, analog)
- Transparent RS232 (max. 115,200 bps)
- 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/guarantee renewal possible

## FEATURES

### SECURITY FEATURES

- Early detection of security incidents or unusual activities through continuous monitoring via Syslog, monitoring, and SNMP
- Redundant network interface
- Redundant internal power packs
- Auto Backup Function: Automates backups at user-defined intervals and replaces manual intervention – ensuring reliable, timely data protection without the need for continuous monitoring
- 2-Factor-Authentication (2FA) – is integrated by default in MUX-NT series 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
- Configuration and update via the multilingual HTML5 web interface "Config Panel 21" (Java-free)

## 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     | Product group            | KVM switches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|             | Number of workstations   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|             | Number of sources        | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Video input | Number of video channels | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|             | Format                   | DisplayPort 1.4<br>(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 ca. 1080 MPixel/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|             | Vertical frequency       | 20 Hz to 240 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|             | Horizontal frequency     | 25 kHz to 390 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|             | Exemplary resolutions    | 7680 × 4320 (30 Hz) - 5k<br>5120 × 2880 (60 Hz) - 5k<br>4096 × 2160 (60 Hz) - 4K UHD / 4K2K<br>3840 × 2160 (120 Hz) - 5k<br>3840 × 2160 (60 Hz) - 4K UHD / 4K2K<br>2560 × 1600 (60 Hz) - 2K / WQXGA<br>2560 × 1440 (240 Hz) - 5k<br>2560 × 1440 (144 Hz) - 4K UHD / 4K2K<br>2048 × 2048 (60 Hz) - 2K / WQXGA<br>1920 × 1200 (60 Hz) - Full HD / WUXGA<br>1920 × 1080 (240 Hz) - 4K UHD / 4K2K<br>1920 × 1080 (60 Hz) - Full HD / WUXGA<br>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)                                                                                                                                                                                                                                                                                                                                                                                                                          |
|              | Note                         | The supported industry standards cannot be guaranteed for all monitor models.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Video output | Number of video channels     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|              | Format                       | DisplayPort 1.4<br>(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 ca. 1080 MPixel/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|              | Vertical frequency           | 20 Hz to 240 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|              | Horizontal frequency         | 25 kHz to 390 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|              | Exemplary resolutions        | 7680 × 4320 (30 Hz) - 5k<br>5120 × 2880 (60 Hz) - 5k<br>4096 × 2160 (60 Hz) - 4K UHD / 4K2K<br>3840 × 2160 (120 Hz) - 5k<br>3840 × 2160 (60 Hz) - 4K UHD / 4K2K<br>2560 × 1600 (60 Hz) - 2K / WQXGA<br>2560 × 1440 (240 Hz) - 5k<br>2560 × 1440 (144 Hz) - 4K UHD / 4K2K<br>2048 × 2048 (60 Hz) - 2K / WQXGA<br>1920 × 1200 (60 Hz) - Full HD / WUXGA<br>1920 × 1080 (240 Hz) - 4K UHD / 4K2K<br>1920 × 1080 (60 Hz) - Full HD / WUXGA<br>Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |

|         |                              |                                                                                                                              |
|---------|------------------------------|------------------------------------------------------------------------------------------------------------------------------|
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|         | Note                         | The supported industry standards cannot be guaranteed for all monitor models.                                                |
| Audio   | Transmission type            | LPCM (2/4/6/8 channels)<br>Stereo                                                                                            |
|         | Resolutions                  | 24 bit<br>20 bit<br>16 bit                                                                                                   |
|         | Sampling rate                | 32 kHz<br>44,1 kHz<br>48 kHz<br>88,2 kHz<br>96 kHz<br>176,4 kHz<br>192 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     | Specification                | USB 3.1 Gen 1                                                                                                                |
|         | Transmission rate            | 5000 Mbit/s (SuperSpeed)                                                                                                     |

|             |                          |                                        |
|-------------|--------------------------|----------------------------------------|
|             | Power (output)           | 900 mA (HighPower)                     |
|             | USB classes              | All                                    |
| Serial      | Standard                 | RS232                                  |
|             | Transparent transmission | yes                                    |
|             | Data rate                | max. 115200 bps                        |
|             | Signals                  | TxD<br>RxD<br>DTR<br>DSR<br>RTS<br>CTS |
|             |                          |                                        |
| Network     | Medium 1                 | CAT5<br>CAT6<br>CAT7                   |
|             | Data rate 1              | 10 MBit/s<br>100 MBit/s                |
|             | Medium 2                 | CAT7<br>CAT6<br>CAT5                   |
|             | Data rate 2              | 100 MBit/s<br>10 MBit/s                |
|             |                          |                                        |
| Maintenance | Update via               | ConfigPanel (Network)                  |
|             | Serviceport settings     | 115200bps (8/N/1)                      |
| Housing     | Material                 | anodised aluminium                     |
|             | Width                    | ca. 436 mm                             |
|             | Height                   | ca. 66 mm                              |
|             | Depth                    | ca. 210 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 55 °C                                                                                                                                                                                                                                                   |
|                      | Storage air humidity       | 15 % to 85 %, non-condensing                                                                                                                                                                                                                                      |
|                      | MTBF                       | 200000 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         | Input voltage              | 100-240 VAC                                                                                                                                                                                                                                                       |
|                      | Input frequency            | 60-50 Hz                                                                                                                                                                                                                                                          |
|                      | Current consumption        | 0.6-0.4 A                                                                                                                                                                                                                                                         |
| Power supply 2       | Input voltage              | 100-240 VAC                                                                                                                                                                                                                                                       |
|                      | Input frequency            | 60-50 Hz                                                                                                                                                                                                                                                          |
|                      | Current consumption        | 0.6-0.4 A                                                                                                                                                                                                                                                         |

## MORE VARIANTS

| Description                                                                                                           | Article number |
|-----------------------------------------------------------------------------------------------------------------------|----------------|
| <b>DP1.4-MUX4-NT</b><br>KVM switch to operate 4 computers with DisplayPort1.4 interface via one console               | A2100216       |
| <b>DP1.4-MUX4-NT-MC2</b><br>KVM switch to operate 4 computers with 2 DisplayPort1.4 interfaces each via one console   | A2100215       |
| <b>DP1.4-MUX4-NT-MC2-R</b><br>KVM switch to operate 4 computers with 2 DisplayPort1.4 interfaces each via one console | A2100217       |

# 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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