DP1.2-MUX3-ATC-R

KVM switches, Article number A2100210



Front



Back

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-436-2RU	A7000008
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)
- 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 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	1
	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) 3840 × 2160 (60 Hz) 2560 × 1600 (60 Hz) 2560 × 1440 (144 Hz) 2048 × 2048 (60 Hz) 1920 × 1200 (60 Hz) 1920 × 1080 (240 Hz) 1920 × 1080 (60 Hz) 5120 × 1440 (60 Hz) 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	1
	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
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	Supported industry standards	Display Data Channel Command Interface (DDC/CI) Extended Display Identification Data (EDID)
Audio 1	Transmission type	Unidirectional
	Resolutions	24 bit 20 bit 16 bit
	Sampling rate	up to 48 kHz
	Audio support	Digital Embedded
Audio 2	Transmission type	Stereo 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
Serial	Standard	RS232
	Transparent transmission	yes
	Data rate	max. 115,200 bps
	Signals	TxD RxD DTR DSR RTS CTS
Network	Quantity	2
	Medium	CAT5 CAT6 CAT7
	Data rate	10 Mbit/s 100 Mbit/s 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.	88 mm / 3.46 in
	Depth ca.	210 mm / 8.27 in
	IP protection class	IP20
	Weight ca.	3.15 kg / 6.94 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 %
	MTBF	110,000 h at 25°C (77 °F)
	Conformities	CE compliant (see downloads) UKCA compliant (see downloads) FCC compliant (see manual) TAA compliant (see downloads) RoHS compliant (see downloads) WEEE (reg. no. DE30763240) REACH compliant (see downloads)
Power supply	Quantity	2
	Type	Internal
	Input voltage	100-240 VAC
	Input frequency	60-50 Hz
	Current consumption	0.9-0.4 A
	Power consumption idle	23.4-23 W

Power consumption max.	46.6-45.9 W
Heat output idle	22.4-22 W / 76.43-75.07 BTU/h
Heat output max.	29.15-28.55 W / 99.46-97.42 BTU/h

ACCESSORY PRODUCTS

Image	Description	Article number
	USB-Service-2 cable 2m Cable for system updates and configuration	A6200103
	CPU-DP-U3-2 cable DP 2m Cable set to connect a computer via its DP, audio, PS/2, USB 2.0 and USB 3.0 interfaces	A6100182
	CPU-DP-U-2 cable connection-DPMux Cable set to connect a computer via its DisplayPort, audio and USB interfaces	A6100164
	PowerCable-3 Standard cable 3m Cable to connect the power supply type Germany	A6300066
	PowerCable-5 Standard cable 5m Cable to connect the power supply type Germany	A6300065
	Audio-M/M-2-ferrite cable 2m Audio connection cable with ferrite core	A6300083
	Audio-M/M-3-ferrite cable 3m Audio connection cable with ferrite core	A6300118
	Audio-M/M-5-ferrite cable 5m Audio connection cable with ferrite core	A6300085
	DP1.4-Cable-M/M-2 SK13357 2m Single cable to connect a DisplayPort video channel (DP1.4)	A6300173
	DP1.4-Cable-M/M-3 SK13358 3m Single cable to connect a DisplayPort video channel (DP1.4)	A6300174
	DP1.4-Cable-M/M-5 SK13359 5m Single cable to connect a DisplayPort video channel (DP1.4)	A6300175
	USB-AM/BM-2 cable USB 2m USB cable, Type-A Plug/Type-B Plug	A6300113
	USB-AM/BM-3 cable USB 3m USB cable, Type-A Plug/Type-B Plug	A6300114
	USB-AM/BM-5 cable USB 5m USB cable, Type-A Plug/Type-B Plug	A6300111

Image	Description	Article number
	USB3.0-AM/BM-1 cable USB3.0 1m USB3.0 cable, Type-A Plug/Type-B Plug	A6300144
	USB3.0-AM/BM-2 cable USB3.0 2m USB3.0 cable, Type-A Plug/Type-B Plug	A6300145
	USB3.0-AM/BM-3 cable USB3.0 3m USB3.0 cable, Type-A Plug/Type-B Plug	A6300146
	RS232-M/F-2 cable RS232 2m Cable to connect a serial device	A6300023

MORE VARIANTS

Description	Article number
DP1.2-MUX3-ATC KVM switch to operate up to 3 computers with DisplayPort1.2 interface via one console	A2100189
DP1.2-MUX3-ATC-MC2 KVM switch to operate up to 3 computers with 2 DisplayPort1.2 interfaces each via one console	A2100190
DP1.2-MUX3-ATC-MC2-R KVM switch to operate up to 3 computers with 2 DisplayPort1.2 interfaces each via one console	A2100211
DP1.2-MUX3-ATC-MC3 KVM switch to connect 3 CPUs with triple digital video signal	A2100220
DP1.2-MUX3-ATC-MC3-R KVM switch to connect 3 CPUs with triple digital video signal	A2100219
DP1.2-MUX3-ATC-MC4 KVM switch to connect 3 CPUs with quad digital video signal	A2100221

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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