



DP KVM switches

DP1.2-MUX

KVM switches

Switches for the effective operation of multiple computers via one workstation

Catalogue
V1.1



G&D IF IT'S KVM



The company

Experience the whole world of

KVM

G&D IF IT'S KVM

Guntermann & Drunck is regarded as a leading manufacturer of KVM equipment used in control rooms in air traffic control, broadcast studios, on ships and to monitor industrial processes.

With a powerful portfolio consisting of KVM extenders, switches and matrix switches, G&D's users get real added value. G&D provides the broadest KVM product portfolio at the market. Even with different features, all G&D products are compatible and can be combined. Our KVM solutions optimise the application of IT equipment and improve the working conditions for humans and computers.

No matter where KVM devices are installed, there's always one main requirement - robust, reliable, user-friendly and easy to operate KVM systems that can be adapted to future requirements and grow with your demands.

By short lines of communication G&D is able to solve challenging requirements and tailor systems to our customers' needs. We keep direct contact to our customers and are personally available. We are proactive and always keep an eye on the trends in the industry. Functionalities required by our customers are quickly implemented into our products. Our success can only be measured with our customers' satisfaction.

Trust in G&D for your optimal KVM solution.

DP1.2-MUX - The KVM switch for native 4K UltraHD resolution over DisplayPort™ 1.2

The KVM switch **DP1.2-MUX** switches the signals

- DisplayPort™ 1.2
- USB Keyboard / Mouse
- USB 2.0 transparent
- Audio

The DP1.2-MUX2-USB KVM switch enables you to operate up to two computers via one console.

The console is provided with a USB keyboard, a USB mouse and a DisplayPort™ monitor. The computers connected to the KVM switch are operated from the installed console.

The switching between computers takes place either via the push buttons on the front panel, configurable key combinations, or a serial device which is connected to the Service- or RS232 port.

The front panel of the device provides two USB 2.0 interfaces to operate any USB devices. The connected USB devices are available to whichever active computer.

The KVM switch emulates keyboard and mouse on each channel and hence guarantees error-free booting at all times.



DP1.2-MUX2 – front view



DP1.2-MUX2 – rear view

Details

Video

- DisplayPort™ 1.2 on input and output side
- E-DDC support
- Colour depth: 24 Bit

Exemplary resolutions:

- 4096 × 2160 @ 60 Hz (4K/60 Hz)
- 3840 × 2160 @ 60 Hz (Ultra HD/60 Hz)
- 2560 × 1600 @ 60 Hz
- 2560 × 1440 @ 144 Hz
- 1920 × 1200 @ 60 Hz
- 1920 × 1080 @ 240 Hz
- 2048 × 2048 @ 60 Hz (2K x 2K)

More standardized resolutions within the max. pixelrate and refresh rate between 20 and 240 Hz possible.

Device

- Accesses the computer's standard interfaces only
- Switching via push button, keyboard hotkeys or serial device connected to the service interface
- Requires no software installation
- Available as desktop and 19" rack mount variant
- Internal power supply
- Aluminium housing for best interference resistance
- Hot-pluggable

Signals

- USB keyboard / mouse
- USB 2.0 transparent
- Audio

System-Upgrade

- Flash upgrade at device

Variants

Design

- Available as desktop (DT) or rack mount (RM) variant

Peripheral connections

- Available for USB connections

Video channels

- Single-channel
- Multi-channel 2

Expansion

The DP1.2-MUX switches are fully equipped. There are no recent expansions available.

Installation

Connect the computers to the back side of the device. Distinctive standard cables connect keyboard, mouse, audio and USB interfaces to the switch.

- Cable length of PS/2 cable sets: 2 m, 5 m
- Cable length of USB cable sets: 2 m, 5 m

For connecting the user console simply link keyboard, monitor, mouse, speakers and USB devices to the intended interfaces.

The supplied LED sets are attached to the monitors. During operation, an illuminated LED indicates the monitor of the computer to which the keyboard / mouse focus is switched.

To find out more details about the startup, you can download the DP1.2-MUX manual.

DP1.2-MUX2



DP1.2-MUX2-MC2 – front view



DP1.2-MUX2-MC2 – rear view

DP1.2-MUX series

General features	
No. of video sources	
per computer/console:	--> see variant features
Console	
Connections per device:	1
Connection:	directly at the device
Interfaces for console	
Video:	--> see variant features
USB keyboard/mouse:	2 × USB-A socket
USB 2.0 devices:	× USB-A socket
Audio:	1 × 3,5 mm jack socket (Line In) 1 × 3,5 mm jack socket (Speaker)
Computer	
Connections per device:	2
Connection:	with optional cable sets at the device
Interfaces per computer	
Video:	--> see variant features
USB:	1 × USB-B socket
Audio:	1 × 3,5 mm jack socket (Line In) 1 × 3,5 mm jack socket (Line Out)
Graphics	
Signal input:	DisplayPort™ 1.2a (LBR, HBR, HBR2)
Signal output:	DisplayPort™ 1.2a (LBR, HBR, HBR2)
Colour depth:	24 Bit
Exemplary resolutions:	4096 × 2160 @ 60 Hz (4K/60 Hz) 3840 × 2160 @ 60 Hz (Ultra HD/60 Hz) 2560 × 1600 @ 60 Hz 2560 × 1440 @ 144 Hz 1920 × 1200 @ 60 Hz 1920 × 1080 @ 240 Hz 2048 × 2048 @ 60 Hz (2K x 2K) More standardized resolutions within the max. pixelrate and refresh rate between 20 and 240 Hz possible.

DP1.2-MUX series

General features	
Pixel rate:	25 MPixel/s to 660 MPixel/s
Pixel coding:	RGB 4:4:4 with 24 bpp/8 bpc
EDID incl. DDC/CI:	EDID support via DP-AUX channel
Audio (DisplayPort™ Digital)	
Transmission type:	L-PCM (2/4/6/8 channels), stereo
Resolutions:	16/20/24 bit
Sampling rates:	32/44,1/48/88,2/96/176,4/192 kHz
Audio (Line In/Out)	
Type:	analog, bidirectional
Resolutions:	24 bit digital, stereo
Sampling rates:	96 kHz
Other interfaces	
Service:	1 × Mini-B USB socket
Remote:	1 × Mini-B USB socket
RS232:	1 × RJ 11 socket
Power supply	
Type:	internal power pack
Connection:	IEC socket (IEC-320 C14)
Power input:	--> see variant features
Operational environment	
Temperature:	+5 to +45 °C
Humidity:	< 80%, non-condensing
Conformity	
	CE, RoHS

DP1.2-MUX variants

Individual features	DP1.2-MUX2-USB	DP1.2-MUX2-USB-MC2
No. of video sources		
per computer/console:	1	2
Interfaces for console		
Video:	1 × DisplayPort™ socket	2 × DisplayPort™ socket
Interfaces per computer		
Video:	1 × DisplayPort™ socket	2 × DisplayPort™ socket
Power supply		
Power input:	100 mA@240VAC; 200 mA@100VAC	200 mA@240VAC; 300 mA@100VAC
Casing		
Material:	anodised aluminium	
Dimensions (W × H × D):	210 × 44 × 210 mm	210 × 66 × 210 mm

List of item numbers

Art. no.	Description	Design
A2100169	DP1.2-MUX2-USB	Desktop
A2100170	DP1.2-MUX2-MC2-USB	Desktop

Legend

ABBREVIATIONS

CPU = Computer module
 PC = Computer module
 CON = User module
 REM = User module































MC2 = Multi-channel 2
 MC3 = Multi-channel 3
 MC4 = Multi-channel 4

M = Multimode
 S = Singlemode
 S+ = Singlemode+










RM = For assembly in a 19" rack
 Desktop device
 DT = Desktop device
 DP = DisplayPort™

A = Audio
 R = RS232
 U = Integr. USB 2.0 up to
 16 MBit/s
 U2 = Transp. USB 2.0 Hi-Speed
 480 Mbit/s
 D = Delay

EQUIPMENT FEATURES

 Audio	 High Definition Multimedia Interface	 Power switching
 CAT cable	 Keyboard/Mouse	 Remote IP
 Compact setup	 KVM-over-IP™	 RS232
 CrossDisplay-Switching	 Media control	 Screen-Freeze
 Delay	 Mix & Match	 Separate local/remote user
 DisplayPort™	 Modular setup	 Single user
 DVI dual link video	 Monitoring	 USB 2.0
 DVI single link video	 Multi user	 USB 3.0
 Expansion	 Multi-channel video	 VGA video
 Fiber optics	 Network connection	 Web Interface

COLOUR CATEGORY

 KVM extenders	 Digital KVM matrix systems	 Monitoring & SNMP
 KVM switches	 Digital signage	 KVM MultiPower
 Analog KVM matrix systems	 KVM add-ons	 Accessories

From professionals to professionals:

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

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