

# DVI KVM Switches

# DP-MUX 7.4

## KVM Switches

Switches for the effective operation of multiple computers via one workstation



**Leading the way in digital KVM**

## The company

Experience the whole world of

KVM

## Leading the way in digital KVM

Guntermann & Drunck is regarded as a leading manufacturer of digital and analogue 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.

With DisplayPort KVM switches, you can operate 2 computers over set of monitor, keyboard/mouse only. The switches are stand-alone devices.

DP-MUX devices switch the following signals:

- DisplayPort 1.1
- Keyboard/mouse
- Audio
- USB 2.0 transparently

The devices are available as variants transmitting one video channels.

A working system consists of one DP-MUX and the required cables to connect the computers.



DP-MUX2-USB - rear view

## Highlights

### Video

- Mixed operation of DisplayPort 1.1 und DVI on output side
- E-DDC support

### Signals

- Switches audio and transparent USB 2.0 signals

### Miscellaneous

- Suitable for all operating systems
- **DP-MUX4 in preparation**

## Features

### Video

- DisplayPort 1.1 resolutions up to 2560 × 1600 @ 60Hz (at 30bpp colour depth)
- Single-link DVI resolutions up to 1920 × 1200 @ 60 Hz (on output side only)
- Colour mode DisplayPort up to 48bit
- Colour mode DVI up to 24bit
- Data transfer rate up to 10.8 Gbit

### System upgrade

- Flash upgrade at device

### Devices

- 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

## Variants

### Design

- desktop or rackmount variant

### Expansion

- The DP-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.

# DP-MUX2



links: DP-MUX2-USB - front view  
 rechts: DP-MUX2-USB - rear view

DP-MUX2-USB	
<b>Video</b>	
User console slots per unit	1
Signal type/video	DisplayPort 1.1 a
Digital resolution	DisplayPort up to 2560 × 1600 @ 60Hz (at 30bpp colour mode) DVI resolution up to 1920 × 1200 @ 60Hz only output side)
Standards	E-DDC support
Digital colour mode	up to 24 bit
Video sources per computer	1
Computer connection	KVM cable set
Computer channels	2
Interfaces for user console	1 × DisplayPort socket 1 × DVI-D socket
Interfaces to computer	2 × DisplayPort socket
<b>Keyboard/Mouse</b>	
Interfaces for user console	2 × USB-A socket
<b>Audio</b>	
Connection	analog
Bandwidth	22 kHz
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)
Interfaces to computer	2 × (2 × 3.5 mm jack plug) (line in + line out)
<b>Transparent USB 2.0</b>	
USB power supply	high power up to 500 mA
USB transmission rate	up to 480 Mbps
Transmission range	5 m
Interfaces for user console	2 × USB-A socket
Interfaces to computer	2 × USB-B socket (for both keyboard/mouse)

<b>Power supply</b>	
Type	internal power pack
Connection	1 × IEC plug
Voltage	AC100-240V/60-50Hz
	200-100mA
<b>Casing</b>	
Material	anodised aluminium
Desktop (W × H × D)	210 × 44 × 210 mm
Rack mount (W × H × D)	19" × 1 U × 210 mm
Weight	approx. 1.2 kg
<b>Update</b>	
Process	update-wizard via local service socket
Connection	1 × 2.5 mm jack plug
<b>Operating conditions</b>	
Temperature	+5 to +45 °C
Air humidity	< 80% non-condensing
Conformity	RoHs

## List of Item Numbers DP-MUX



























Item No.	Description	CPU	PS/2	U2	DT	RM
A2100154	DP-MUX2-USB	2		U2	DT	
A2100155	DP-MUX2-USB-RM	2		U2		RM

## Legend

### ABBREVIATIONS

CPU	=	Computer module	M	=	Multimode
PC	=	Computer module	S	=	Singlemode
CON	=	User module	RM	=	For assembly in a 19" rack
REM	=	User module	DT	=	Available as desktop variant
MC2	=	Multichannel 2	A	=	Audio
MC3	=	Multichannel 3	AR	=	Audio + RS232
MC4	=	Multichannel 4	R	=	RS232
			U	=	transparent USB 1.1
			U2	=	transparent USB 2.0
			D	=	Delay

### EQUIPMENT FEATURES

 = modular setup	 = Fire Wire
 = keyboard/mouse	 = VT100
 = dual-link DVI video	 = KVM IP access
 = single-link DVI video	 = Network connection
 = DisplayPort 1.1	 = Web interface
 = single-link DVI + VGA	 = DevCon support
 = VGA video	 = Monitoring
 = Audio	 = CAT cable
 = RS232	 = Fiber optics
 = USB 1.1	 = Single user
 = USB 2.0	 = Multi user
 = Delay	 = Separat local/remote user
 = Screen Freeze	
 = Power Switching	