DVI KVM Switches

DisplayPortMUX 7.3

KVM Switches
Switches for the effective operation of multiple computers
via one workstation

Leading the way in digital KVM

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Guntermann & Drunck GmbH has been established in 1985 and is named after its founders. Over 25 years have since past, and we are now a leading manufacturer of digital and analog KVM switching systems.

As an owner-managed company we work with a broad range in both digital and analog KVM closely with the marketplace and make our decisions with and in the interests of our customers. It is our philosophy to meet our customers while making decisions, to accompany them in the process and ensure that they achieve their goals.

We can do this because as a medium sized company we have short communication paths and all core competencies are in house – from development through to production. This way we can even make the impossible possible at times. If it is thanks to the modularity of the products or by implementing a customised solution. We orient ourselves towards the needs of the customer – and not the other way round.

Organisations, service providers and companies of all sizes managing numerous computers, servers and other network devices trust the comprehensive advice and service provided by Guntermann & Drunck GmbH.

Thanks to these different fields of specialisation, the demands placed on the products are many and are manifold. Our products have to provide a long-life service, be secure, uncomplicated, user-friendly, understandable and adaptable.

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

DisplayPortMUX 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 DisplayPortMUX and the required cables to connect the computers.

DisplayPortMUX2-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
- **DisplayPortMUX4 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 DisplayPortMUX 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.

DisplayPortMUX2

links: DisplayPortMUX2-USB - front view
rechts: DisplayPortMUX2-USB - rear view

	DisplayPortMUX2-USB
Video	
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
Keyboard/Mouse	
Interfaces for user console	2 × USB-A socket
Audio	
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)
Transparent USB 2.0	
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)

Power supply	
Type	internal power pack
Connection	1 × IEC plug
Voltage	AC100-240V/60-50Hz
	200-100mA
Casing	
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
Update	
Process	update-wizard via local service socket
Connection	1 × 2.5 mm jack plug
Operating conditions	
Temperature	+5 to +45 °C
Air humidity	< 80% non-condensing
Conformity	RoHs

List of Item Numbers DisplayPortMUX

Item No.	Description	CPU	PS/2	U2	DT	RM
A2100154	DisplayPortMUX2-USB	2		U2	DT	
A2100155	DisplayPortMUX2-USB-RM	2		U2		RM

Legend

ABBREVIATIONS

CPU	=	Computer module
PC	=	Computer module
CON	=	User module
REM	=	User module
MC2	=	Multichannel 2
MC3	=	Multichannel 3
MC4	=	Multichannel 4

M	=	Multimode
S	=	Singlemode
RM	=	For assembly in a 19" rack
DT	=	Available as desktop variant
A	=	Audio
AR	=	Audio + RS232
R	=	RS232
U	=	transparent USB 1.1
U2	=	transparent USB 2.0
D	=	Delay

EQUIPMENT FEATURES

= modular setup		FIRE wire	= Fire Wire
= keyboard/mouse		VT 100	= VT100
DVI DL = dual-link DVI video		KVM IP	= KVM IP access
DVI SL = single-link DVI video		LAN	= Network connection
= DisplayPort 1.1		WEB If	= Web interface
DVI &VGA = single-link DVI + VGA		DEV CON support	= DevCon support
VGA = VGA video		Moni tor	= Monitoring
= Audio			
RS 232 = RS232		CAT cable	= CAT cable
USB 1.1 = USB 1.1		Fiber optics	= Fiber optics
USB 2.0 = USB 2.0		= Single user	
= Delay		= Multi user	
= Screen Freeze		= Separat local/remote user	
= Power Switching			