

DVI KVM Switches

DVIMUX-DL 7.2

KVM Switches

Switches for the effective operation of multiple computers via one workstation











Leading the Way in digital KVM

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.

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The KVM switches DVIMUX-DL enable you to operate two or four computers over one user console.

The DVIMUX-DL switches the following signals:

- keyboard/mouse
- · dual-link DVI and VGA
- audio
- USB 2.0

The devices are available as variants transmitting one, two, three or four video channels.

A working system consists of a DVIMUX-DL and the required computer connection cable sets.





DVIMUX4-DL-MC2-PS/2 - front view

Highlights

Video

- mixed DVI/VGA operation on input and output side
- E-DDC support
- · single- and multi-channel variants
- DVI dual-link 300 Mbps

Signals

- switches audio and transparent USB 2.0 signals
- USB and PS/2 keyboard/mouse support

Miscellaneous

- suitable for all operating systems
- external switching over RS232 possible
- also available as 12V or 24V variant

Features

Video

- DVI resolution up to 2560 x 1600 @ 60Hz or 2k x 2k @ 60Hz per channel
- VGA resolution up to 1920 x 1440 @ 75Hz or 2k x 2k @ 60 Hz per channel
- video bandwidth DVI dual-link 330 MP/s
- video bandwidth VGA up to 400 MHz
- · digital colour mode 24 bit or analog
- · backward-compatible to single-link
- DVIMUX2-DL & DVIMUX4-DL are 3D-capable with NVIDIA® 3D Vision™; resolution up to 1680 x 1050@120Hz

System upgrade

update by flash upgrade at device

Devices

- · only access standard computer interfaces
- no software installation required
- · internal power supply
- · available as desktop and rack mount variant
- housed in an aluminium casing for best interference resistance
- hot-pluggable



Variants

Design

- · available as desktop (DT) or rack mount (RM) variant
- PS/2 or USB 2.0 transparent

Video channels

- DVIMUX2-DL Single-Channel, MC2
- DVIMUX4-DL Single-Channel, MC2, MC3, MC4

Expansion

The DVIMUX-DL devices are fully equipped. Recently no expansions are available.

Installation

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

Cable length for PS/2 cable sets: 2 m, 5 m Cable length for USB cable sets: 2 m, 5 m The user console is simply connected by linking keyboard, monitor, mouse, speakers, and USB devices to the intended interfaces.

Feel free to download the DVIMUX-DLmanual to find out more details about the start-up.

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	DVIMUX2-DL-USB	DVIMUX2-DL-PS/2
Video		
User console connection per device	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75	5 Hz or 2k x 2k @ 60 Hz
Digital resolution	btw. 640 × 480 @ 100 Hz and 2560 × 1600 @ 60 Hz or 2k x 2k @ 60 Hz	
Analog video bandwidth	400 MHz	
Digital video bandwidth	DVI single-link 165 mbps DVI dual-link 330 mbps	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	1	
Computer connection	KVM cable set	
Computer ports	2	
Interfaces for user console	DVI-I socket	
Interfaces to computer	2 x DVI-I socket	

Keyboard/Mouse			
Interfaces for user console		2 × Mini-DIN 6 socket	
	2 × US	B-A socket	
Interfaces to computer	2 x USB-B socket	2 x (2 x Mini-DIN 6 socket)	
Audio			
Connection	aı	analog	
Bandwidth	22	22 kHz	
Interfaces for user console	2 x 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)	
Interfaces to computer	2 × (2 × 3.5 mm jack plug) (line in + line out)	2 × 3.5 mm socket (line in)	

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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 x USB-B socket(also keyboard/mouse)	
Power supply		
Туре	internal po	ower pack
Connection	1 × IE	C plug
Voltage	AC100-240V/60-50Hz	
	0.25-0.13A	0.2-0.1A
Casing		
Material	anodised aluminium	
Desktop (W x Hx D)	210 × 44 × 210 mm	
Rackmount (W × H × D)	19" × 1 U × 210 mm	
Weight	approx. 1.2 kg	
Update		
Process	local service socket	
Connection	1 × 2.5 mm jack plug	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	CE, RoHs	

DVIMUX2-DL-MC2





left: DVIMUX2-DL-MC2-USB - front view right: DVIMUX2-DL-MC2-USB - rear view

	DVIMUX2-DL-MC2-USB	DVIMUX2-DL-MC2-PS/2
Video		
User console connection per device	1	
Signal type/video	analog/digi	tal video
Analog resolution	up to 1920 × 1440 @ 75	Hz or 2k x 2k @ 60 Hz
Digital resolution	btw. 640 × 480 @ 100 Hz and 2560 ×	1600 @ 60 Hz or 2k x 2k @ 60Hz
Analog video bandwidth	400 M	lHz
Digital video bandwidth	DVI single-link DVI dual-link	
Standards	E-DDC s	upport
Digital colour mode	24 b	vit
Video sources per computer	2	
Computer connection	KVM cable set	
Computer ports	2	
Interfaces for user console	2 x DVI-I socket	
Interfaces to computer	2 × (2 x DVI-I socket)	
Keyboard/Mouse		
Interfaces for user console		2 x Mini-DIN 6 socket
	2 x USB-A socket	
Interfaces to computer	4 x USB-B socket	2 x (2 x Mini-DIN 6 socket)
Audio		
Connection	analog	
Bandwidth	22 kł	-lz
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	2 × (2 × 3.5 mm jack plug) (line in + line out)	2 × 3.5 mm socket (line in)

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ransparent USB 2.0		
ISB power supply	high power up to 500 mA	
ISB transmission rate	up to 480 Mbps	
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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	4 x USB-B socket(also keyboard/mouse)		
Power supply			
Туре	internal p	ower pack	
Connection	1 × IE	C plug	
Voltage	AC100-240	0V/60-50Hz	
	0.3-0.2A	0.3-0.2A	
Casing			
Material	anodised aluminium		
Desktop (W x H x D)	210 × 66 × 210 mm		
Rackmount (W × H × D)	19" × 1.5 U × 210 mm		
Weight	арргох	approx. 1.5 kg	
Update			
Progress	local serv	local service socket	
Connection	1 × 2.5 mm jack plug		
Operating conditions			
Temperature	+5 to	+5 to +40 °C	
Air humidity	< 80% non-condensing		
Conformity	CE, RoHs		

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DVIMUX4-DL





left: DVIMUX4-DL-USB - front view right: DVIMUX4-DL-USB - rear view

	DVIMUX4-DL-USB	DVIMUX4-DL-PS/2
Video		
User console connection per device	1	1
Signal type/video	analog/diç	gital video
Analog resolution	up to 1920 × 1440 @ 75	5 Hz or 2k x 2k @ 60 Hz
Digital resolution	btw. 640 × 480 @ 100 Hz and 2560	× 1600 @ 60 Hz or 2k x 2k @ 60Hz
Analog video bandwidth	400	MHz
Digital video bandwidth	DVI single-lir DVI dual-lin	
Standards	E-DDC	support
Digital colour mode	24	bit
Video sources per computer	1	1
Computer connection	KVM cable set	
Computer ports	4	
Interfaces for user console	DVI-I socket	
Interfaces to computer	4 x DVI-I socket	
Keyboard/Mouse		
Interfaces for user console		2 × Mini-DIN 6 socket
	2 × USB-	-A socket
Interfaces to computer	4 x USB-B socket	4 x (2 x Mini-DIN 6 socket)
Audio		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 x 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	$2 \times (2 \times 3.5 \text{ mm jack plug})$ (line in + line out)	2 × 3.5 mm socket (line in)

Air humidity
Conformity

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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 x USB-A socket		
Interfaces to computer	4 x USB-B socket(also keyboard/mouse)		
Power supply			
Туре	internal p	ower pack	
Connection	1 × IE	EC plug	
Voltage	AC100-24	AC100-240V/60-50Hz	
	0.3-0.15A	0.2-0.1A	
Casing			
Material	anodised	anodised aluminium	
Desktop (W x H x D)	270 × 44	270 × 44 × 210 mm	
Rackmount (W × H × D)	19" × 1 U	19" × 1 U × 210 mm	
Weight	арргох	approx. 1.5 kg	
Update			
Progress	local serv	local service socket	
Connection	1 × 2.5 mi	1 × 2.5 mm jack plug	
Operating conditions			
Temperature	+5 to	+5 to +40 °C	

< 80% non-condensing

CE, RoHs

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DVIMUX4-DL-MC2





left: DVIMUX4-DL-MC2-PS/2 - front view right: DVIMUX4-DL-MC2-PS/2 - rear view

	DVIMUX4-DL-MC2-USB	DVIMUX4-DL-MC2-PS/2
Video		
User console connection per device	1	
Signal type/video	analog/dig	gital video
Analog resolution	up to 1920 × 1440 @ 75	6 Hz or 2k x 2k @ 60 Hz
Digital resolution	btw. 640 × 480 @ 100 Hz and 2560	× 1600 @ 60 Hz or 2k × 2k @ 60Hz
Analog video bandwidth	400 [MHz
Digital video bandwidth	DVI single-lir DVI dual-lin	
Standards	E-DDC	support
Digital colour mode	24	bit
Video sources per computer	2	2
Computer connection	KVM cable set	
Computer ports	4	
Interfaces for user console	2 x DVI-I socket	
Interfaces to computer	4 × (2 × DV	/I-I socket)
Keyboard/Mouse		
Interfaces for user console		2 x Mini-DIN 6 socket
	2 × USB-	A socket
Interfaces to computer	4 x USB-B socket	4 x (2 x Mini-DIN 6 socket)
Audio		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	2 × (2 × 3.5 mm jack plug) (line in + line out)	2 × 3.5 mm socket (line in)

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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	4 x USB-B socket (also keyboard/mouse)	
Power supply		
Туре	internal po	ower pack
Connection	1 × IE	C plug
Voltage	AC100-240V/60-50Hz	
	0.4-0.2A	0.31-0.16A
Casing		
Material	anodised aluminium	
Desktop (W × H × D)	270 × 66 × 210 mm	
Rackmount (W × H × D)	19" × 1.5 U × 210 mm	
Weight	approx. 1.7 kg	
Update		
Progress	local service socket	
Connection	1 × 2.5 mm jack plug	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	CE, RoHs	



DVIMUX4-DL-MC3





left: DVIMUX4-DL-USB - front view right: DVIMUX4-DL-USB - rear view

	DVIMUX4-DL-MC3-USB	DVIMUX4-DL-MC3-PS/2	
Video			
Console ports per device	1		
Signal type/video	Analog/diç	gital video	
Analog resolution	Up to 1920 × 1440 @ 75	5 Hz or 2k x 2k @ 60 Hz	
Digital resolution	Btw. 640 × 480 @ 100 Hz and 2560	× 1600 @ 60 Hz or 2k × 2k @ 60Hz	
Analog video bandwidth	400 I	MHz	
Digital video bandwidth	DVI single-link dual-link 3		
Standards	E-DDC	support	
Digital colour mode	24	bit	
Video sources per computer	3	3	
Computer connection	KVM cable set		
Computer ports	4		
Interfaces for user console	3 x DVI-I socket		
Interfaces to computer	4 × (3 × D\	/I-I socket)	
Keyboard/Mouse			
Interfaces for user console		2 x Mini-DIN 6 socket	
	2 × USB-	A socket	
Interfaces to computer	4 x USB-B socket	4 x (2 x Mini-DIN 6 socket)	
Audio			
Connection	Ana	Analog	
Bandwidth	22 k	22 kHz	
Interfaces for user console	2 x 3.5 mm jack plug (line in + speaker)	1 x 3.5 mm jack plug (speaker)	
Interfaces to computer	2 × (2 × 3.5 mm jack plug) (line in + line out)	2 × 3.5 mm socket (line in)	

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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	4 x USB-B socket(also keyboard/mouse)	
Power supply		
Туре	Internal po	ower pack
Connection	1 × IE	C plug
Voltage	AC100-240V/60-50Hz	
	0.5-0.2A	0.4-0.2A
Casing		
Material	Anodised aluminium	
Desktop (W x H x D)	270 × 88 × 210 mm	
Rackmount (W × H × D)	19" × 2 U × 210 mm	
Weight	Approx. 2.1 kg	
Update		
Process	Local service socket	
Connection	1 × 2.5 mm jack plug	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	CE, RoHs	

DVIMUX4-DL-MC4





left: DVIMUX4-DL-USB - front view right: DVIMUX4-DL-USB - rear view

	DVIMUX4-DL-MC4-USB	DVIMUX4-DL-MC4-PS/2			
Video					
Console ports per device	1				
Signal type/video	Analog/digital video				
Analog resolution	Up to 1920 × 1440 @ 75 Hz or 2k x 2k @ 60 Hz				
Digital resolution	Btw. 640 × 480 @ 100 Hz and 2560 × 1600 @ 60 Hz or 2k × 2k @ 60Hz				
Analog video bandwidth	400 1	MHz			
Digital video bandwidth	DVI single-link 165 mbps DVI dual-link 330 mbps				
Standards	E-DDC	E-DDC support			
Digital colour mode	24	bit			
Video sources per computer	4				
Computer connection	KVM ca	ble set			
Computer ports	4				
Interfaces for user console	4 x DVI-I socket				
Interfaces to computer	4 x (3 x DVI-I socket)				
Keyboard/Mouse					
Interfaces for user console		2 × Mini-DIN 6 socket			
	2 × USB-	A socket			
Interfaces to computer	4 x USB-B socket	4 x (2 x Mini-DIN 6 socket)			
Audio					
Connection	Analog				
Bandwidth	22 kHz				
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)			
Interfaces to computer	2 x (2 x 3.5 mm jack plug) (line in + line out)	2 × 3.5 mm socket (line in)			

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DVI KVM Switches

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	4 x USB-B socket(also keyboard/mouse)			
Power supply				
Туре	Internal power pack			
Connection	1 x IEC plug			
Voltage	AC100-240V/60-50Hz			
	0.5-0.2A	0.4-0.2A		
Casing				
Material	Anodised aluminium			
Desktop (W x H x D)	270 × 132 × 210 mm			
Rackmount (W × H × D)	19" × 3 U × 210 mm			
Weight	Approx. 2.5 kg			
Update				
Process	Local service socket			
Connection	1 × 2.5 mm jack plug			
Operating conditions				
Temperature	+5 to +40 °C			
Air humidity	< 80% non-condensing			
Conformity	CE, RoHs			



List of Item Numbers Single-Channel

Item No.	Description	CPU	PS/2	U2	DT	RM
A2100091	DVIMUX2-DL-PS/2	2	PS/2		DT	
A2100092	DVIMUX2-DL-PS/2-RM	2	PS/2			RM
A2100093	DVIMUX2-DL-USB	2		U2	DT	
A2100094	DVIMUX2-DL-USB-RM	2		U2		RM
A2100098	DVIMUX4-DL-PS/2	4	PS/2		DT	
A2100099	DVIMUX4-DL-USB	4		U2	DT	
A2100100	DVIMUX4-DL-PS/2-RM	4	PS/2			RM
A2100101	DVIMUX4-DL-USB-RM	4		U2		RM

List of Item Numbers Multi-Channel

Item No.	Description	CPU	PS/2	U2	DT	RM
A2100122	DVIMUX2-DL-MC2-PS/2	2	PS/2		DT	
A2100124	DVIMUX2-DL-MC2-PS/2-RM	2	PS/2			RM
A2100123	DVIMUX2-DL-MC2-USB	2		U2	DT	
A2100125	DVIMUX2-DL-MC2-USB-RM	2		U2		RM
A2100102	DVIMUX4-DL-MC2-PS/2	4	PS/2		DT	
A2100102-24V	DVIMUX4-DL-MC2-PS/2 - 24V	4	PS/2		DT	
A2100103	DVIMUX4-DL-MC2-PS/2-RM	4	PS/2			RM
A2100104	DVIMUX4-DL-MC2-USB	4		U2	DT	
A2100105	DVIMUX4-DL-MC2-USB-RM	4		U2		RM
A2100106	DVIMUX4-DL-MC3-PS/2	4	PS/2		DT	
A2100107	DVIMUX4-DL-MC3-PS/2-RM	4	PS/2			RM
A2100108	DVIMUX4-DL-MC3-USB	4		U2	DT	
A2100109	DVIMUX4-DL-MC3-USB-RM	4		U2		RM
A2100110	DVIMUX4-DL-MC4-PS/2	4	PS/2		DT	
A2100111	DVIMUX4-DL-MC4-PS/2-RM	4	PS/2			RM
A2100112	DVIMUX4-DL-MC4-USB	4		U2	DT	
A2100113	DVIMUX4-DL-MC4-USB-RM	4		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

= keyboard/mouse

DVI = dual-link DVI video

DVI = single-link DVI video

DVI = single-link DVI + VGA

VGA = VGA video

= Audio

RS = RS232

USB = USB 1.1

USB = USB 2.0

= Delay

= Screen Freeze

= Power Switching

FIRE = Fire Wire

VT = VT100

KVM = KVM IP access

LAN = Network connection

WEB = Web interface

DEV CON = DevCon support

Moni = Monitoring

CAT = CAT cable

Fiber = Fiber optics

Single user

= Multi user

= Separat local/remote user