

miniMUX 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 miniMUX enable you to operate two, four, or eight computers over one user console.

The miniMUX switches the following signals:

- keyboard/mouse
- VGA

When cascaded, up to 64 computers can be operated.

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

A working system consists of one miniMUX and the required computer connection cable sets. The package contents of the miniMUX2 include cable sets of 2 m length.





DVIMUX4-MC3-PS/2 - Front view

Highlights

Video

· single-/multi-channel variants

Signals

PS/2 and USB keyboard/mouse support

Safety

- · access protection can be deactivated
- computer-sided support for USB, SUN-USB and PS/2 keyboard/mouse
- · redundant power supply

Miscellaneous

· cascadable to up to 64 computers

Features

Device

- only accesses standard keyboard/video/mouse interfaces
- full keyboard/mouse emulation for each channel
- · no software installation required
- available as desktop and rack mount version
- cascadable
- can be combined with all G&D products
- hot-pluggable
- password protection and rights assignment for each user

Video

- VGA resolution up to 1920 x 1440 @ 75 Hz or 2k x 2k @ 60 Hz
- video bandwidth VGA up to 400 MHz

System upgrade

· update by flash upgrade at device

Variants

Video channels

- miniMUX2 single channel, MC2
- miniMUX4 single channel, MC2, MC3, MC4
- miniMUX8 single channel

Design

available as desktop (DT) or rack mount (RM) variant



Expansion

The miniMUX devices are fully equipped. Recently no expansions are available.

Installation

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

Cable length for PS/2 cable sets: 2 m, 4 m, 6 m Cable length for USB cable sets: 2 m, 4 m

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

Feel free to download the miniMUX manual to find out more details about the start-up.

miniMUX2/4









top left: miniMUX2 - Front view top right: miniMUX2 - Rear view

bottom left: bottom right: miniMUX4 - Front view miniMUX4 - Rear view

	miniMUX2 miniMUX4		
Video			
User console connection per device	1	l	
Signal type/video	analog video		
Resolution	up to 1920 × 1440 @ 75	5 Hz or 2k x 2k @ 60 Hz	
Bandwidth	up to 40	00 MHz	
No. of switchable video sources per computer	1	l	
Computer connection	combined I	KVM cable	
Computer ports	2	4	
Computer ports, cascade level 1		16	
Interfaces for user console	1 x D-Sub H	D 15 socket	
Interfaces to computer (KVM)	2 × MDR20 socket	4 × MDR20 socket	
Keyboard/Mouse	d/Mouse		
Interfaces for user console	2 × Mini-DIN 6 socket		
	2 × USB-A socket		
Interfaces to computer (KVM)	2 × MDR20 socket	4 × MDR20 socket	
Power supply			
Туре	external power pack	internal power pack	
Connection	Mini-DIN power socket	IEC plug	
Voltage	+12VDC	AC100-240V/60-50Hz	
	4A	1.5-0.7A	
Casing			
Material	anodised a	aluminium	
Desktop (W x H x D)	160 × 44 × 210 mm	270 × 44 × 210 mm	
Rackmount (W × H × D)	19" x 1 U x 210 mm		
Weight	approx. 0.8 kg	approx. 1.3 kg	
Update			
Process	local service socket		
Connection	1 x 2.5 mm jack plug		
Operating environment			
Temperature	+5 to +40 °C		
Air humidity	< 80% non-condensing		
Conformity	CE, RoHs		



miniMUX2/4-MC2



left: miniMUX2-MC2 - front view right: miniMUX2-MC2 - rear view

	miniMUX2-MC2	miniMUX4-MC2	
Video			
User console connection per device	1		
Signal type/video	analog video		
Resolution	up to 1920 × 1440 @ 75 Hz or 2k x 2k @ 60 Hz		
Bandwidth	up to 400 MHz		
No. of switchable video sources per computer	2	:	
Computer connection	KVM ca	ble set	
Computer ports	2	4	
Computer ports, cascade level 1		16	
Interfaces for user console	2 × D-Sub H	D 15 socket	
Interfaces to computer (KVM)	2 × MDR20 socket	4 x MDR20 socket	
Additional video	2 x 1 x D-Sub HD 15 socket	4 x 1 x D-Sub HD 15 socket	
Keyboard/Mouse			
Interfaces for user console	2 x Mini-DIN 6 socket		
	2 × USB-A socket		
Interfaces to computer (KVM)	2 × MDR20 socket 4 × MDR20 socket		
Power supply			
Туре	external power pack	internal power pack	
Connection	Mini-DIN power socket	IEC plug	
Voltage	+12VDC	AC100-240V/60-50Hz	
	4.4A	1.7-0.75A	
Casing			
Material	anodised a	ed aluminium	
Desktop (W x H x D)	160 × 44 × 210 mm	270 × 44 × 210 mm	
Rackmount (W x H x D)	19" × 1 U × 210 mm		
Weight	approx. 0.8 kg	approx. 1.4 kg	
Update			
Process	local service socket		
Connection	1 × 2.5 mm jack plug		
Operating environment			
Temperature	+5 to +40 °C		
Air humidity	< 80% non-condensing		
Conformity	CE, RoHs		





miniMUX4-MC3/4





left: miniMUX4-MC4 - Front view right: miniMUX4-MC4 - Rear view

	miniMUX4-MC3	miniMUX4-MC4	
Video			
User console connection per device	1		
Signal type/ video	analog video		
Resolution	up to 1920 × 1440 @ 75 Hz or 2k x 2k @ 60 Hz		
Bandwidth	up to 400 MHz		
No. of switchable video sources per computer	3	4	
Computer connection	KVM cab	ole set	
Computer ports	4		
Computer ports, cascade level 1	16		
Interfaces for user console	3 x D-Sub HD 15 socket	4 x D-Sub HD 15 socket	
Interfaces to computer (KVM)	4 × MDR20) socket	
Additional video	4 x 1 x D-Sub HD 15 socket		
Keyboard/Mouse			
Interfaces for user console	2 × Mini-DIN 6 socket		
	2 x USB-A socket		
Interfaces to computer (KVM)	4 x MDR20 socket		
Power supply			
Туре	internal power pack		
Connection	IEC plug		
Voltage	AC100-240V/60-50Hz		
	1.95-0.85A	2.2-0.95A	
Casing			
Material	anodised al	luminium	
Desktop (W x H xD)	270 × 66 × 210 mm	270 × 88 × 210 mm	
Rackmount (W x H xD)	19" × 1.5 U × 210 mm	19" × 2 U × 210 mm	
Weight	approx. 1.8 kg	approx. 1.9 kg	
Update			
Process	local service socket		
Connection	1 × 2.5 mm jack plug		
Operating environment			
Temperature	+5 to +40 °C		
Air humidity	< 80% non-condensing		
Conformity	CE, RoHs		



G& D

miniMUX8



left: miniMUX8 - Front view right: miniMUX8 - Rear view

	miniMUX8	
Video		
User console connection per device	1	
Signal type/video	analog video	
Resolution	up to 1920 × 1440 @ 75 Hz or 2k x 2k @ 60 Hz	
Bandwidth	up to 400 MHz	
No. of switchable video sources per computer	8	
Computer connection	KVM cable set	
Computer ports	8	
cascade level 1	64	
Interfaces for user console	1 x D-Sub HD 15 socket	
Interfaces to computer (KVM)	8 × MDR20 socket	
Keyboard/Mouse		
Interfaces for user console	2 × Mini-DIN 6 socket	
	2 × USB-A socket	
Power supply		
Туре	internal power pack	
Connection	1 × IEC plug	
Voltage	AC100-240V/60-50Hz	
	1.5 - 1.0A	
Casing		
Material	anodised aluminium	
Desktop (W x H x D)	435 × 44 × 210 mm	
Rackmount (W x H x D)	19" × 1 U × 210 mm	
Weight	approx. 2.0 kg	
Update		
Process	local service socket	
Connection	1 × 2.5 mm jack plug	
Operating environment		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	CE, RoHs	

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VGA KVM Switches

List of Item Numbers Single-Channel

* Computer connection cables are supplied. All prices are including external power supplies.

Art.Nr.	Beschreibung	DT	RM
A2100133	miniMUX2-PS/2	DT	
A2100034	miniMUX2-PS/2-RM		RM
A2100035	miniMUX2-USB	DT	
A2100136	miniMUX2-USB-RM		RM
A2100149	miniMUX4-PS/2	DT	
A2100150	miniMUX4-PS/2-RM		RM
A2100151	miniMUX4-USB	DT	
A2100152	miniMUX4-USB-RM		RM
A2100153	miniMUX8-PS2	DT	RM
A2100128	miniMUX8-USB	DT	RM

List of Item Numbers Multi-Channel

* Computer connection cables are supplied. All prices are including external power supplies.

Art.Nr.	Beschreibung	DT	RM
A2100129	miniMUX2-MC2-PS2	DT	
A2100130	miniMUX2-MC2-PS2-RM		RM
A2100131	miniMUX2-MC2-USB	DT	
A2100132	miniMUX2-MC2-USB-RM		RM
A2100137	miniMUX4-MC2-PS/2	DT	
A2100138	miniMUX4-MC2-PS/2-RM		RM
A2100139	miniMUX4-MC2-USB	DT	
A2100140	miniMUX4-MC2-USB-RM		RM
A2100141	miniMUX4-MC3-PS/2	DT	
A2100142	miniMUX4-MC3-PS/2-RM		RM
A2100143	miniMUX4-MC3-USB	DT	
A2100144	miniMUX4-MC3-USB-RM		RM
A2100145	miniMUX4-MC4-PS/2	DT	
A2100146	miniMUX4-MC4-PS/2-RM		RM
A2100147	miniMUX4-MC4-USB	DT	
A2100148	miniMUX4-MC4-USB-RM		RM

List of Item Numbers Single- & Multi-Channel (without connection cables)

Art.Nr.	Beschreibung	DT	RM
A2100034	miniMUX2	DT	
A2100035	miniMUX2-RM		RM
A2100036	miniMUX2-MC2	DT	
A2100037	miniMUX2-MC2-RM		RM
A2100028	miniMUX4	DT	
A2100029	miniMUX4-RM		RM
A2100038	miniMUX4-MC2	DT	
A2100039	miniMUX4-MC2-RM		RM
A2100040	miniMUX4-MC3	DT	
A2100041	miniMUX4-MC3-RM		RM
A2100042	miniMUX4-MC4	DT	
A2100043	miniMUX4-MC4-RM		RM
A2100115	miniMUX8	DT	RM

* Computer connection cables are not supplied. According to the requirements cables can be combined individually.Please choose the cable sets as desired. All prices are including external power supplies.

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 = DevCon support

Moni = Monitoring

CAT = CAT cable

Fiber = Fiber optics

Single user

= Multi user

= Separat local/remote user