kvm - tec electronic
Highlights

- ***Full HD Videos in real time***
  …by special data compression

- ***Shortest latency on market***
  …by unique video compression (5ms)

- ***Huge distances***
  …with a single cable for video and USB (150m / 80 km)

- ***Transparent USB 2.0***
  …by special kvm-tec USB transmission technology

- ***Free choice of workstation***
  …by kvm-tec Switching Option

- ***Optimized price performance***
  …by way of a compact design

- ***Developed and manufactured in Austria***
  …powered by kvm-tec

kvm-tec electronic gmbh – 2522 Oberwaltersdorf – Kulturstraße 1 – Austria
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www.kvm-tec.com

Welcome

To the Austrian manufacturer and developer of innovative

KVM - Extender and KVM - Switching Systems

It's easy to say that we have the most innovative product for the best price. But to prove it everything has to add up – it is recurrent theme from inception of implementation. From innovative product to reliable reseller, from rapid order processing to comprehensive technical support and in particular the personal support that we, as a competent and motivated team, deliver.

We are excited to share this innovation, creativity, reliability and surety from A to Z, from the inception to implementation with you.

Only exceptional performance makes us competitive in the international market. Therefore, all factors such as price / performance ratio, reliability and quality, as well as on – time delivery have to be perfect.

Here's to good cooperation!

Ing. Dietmar Pfurtscheller
Owner and CEO

Florian Schubert
Chief Operating Officer

Big Selection of Products

From basic digital extenders

to Matrix Switching System

➔ *kvm-tec SMARTLINE – the extender whose price can't be beat*

Digitally perfect USB/DVI at an unbeatable price. Transparent USB 2.0 in a robust case.

150 m coverage, up to 1920x1200 resolution, Full HD video in real-time, DVI (HDMI??) extension, transparent USB 2.0, plug and play installation, only a CAT5/6/7 cable is required, value for money.

➔ *kvm-tec MASTERLINE – the extender that can do it all*

DVI and VGA analogue (optional) in CATx and Fibre versions. Transparent USB 2.0 in a robust case.

The MVX and MVX Fibre are tuned for modern signals such as DVI and USB. The transmission is completely lossless over 500 m. The transparent USB 2.0 port in standard mode supports tablets, touchscreens, sound modules, printers, smartcard readers, serial adapters and much more. For memory sticks and USB hard drives the USB Option is required. This Option may be installed in the by the customer, and for security reasons may also be deactivated.

➔ *kvm-tec PROFILINE – with built in power*

DVI and VGA analogue (optional) in CATx and Fibre versions. Digital sound in both directions and an internal power supply.

➔ *kvm-tec MATRIX SWITCH – the total connection*

Yet another point in which kvm-tec stands out from the competition: our extenders can be extended into a switching matrix, with up to 24 monitors and 24 PCs, with the use of standard over-the-counter network switches. Switching from one PC to another occurs instantly with the press of a button.

The Matrix switching system has been design so that it can be set up with very little training required. Despite its simplicity it can be: configured to use a user/password system to ensure security, controlled via external access, and set up to accommodate workstations with multiple monitors.

If your computer setup includes a PC in reserve the extender can be set up to switch to it automatically if your primary PC goes down.

Powered by kvm-tec

Highlights

➔ *kvm-tec – The products are particularly attractive due*

KVM Extenders are in use 24/7, being put through their paces in automation, medical equipment, hospitals, control rooms, emergency centres and call centres where they've proven themselves to be highly reliable. The stability of the system and quality of video transmission has convinced companies such as STAHL, GECMA, BARTEC, PKE, SIEMENS, SIGMATEK, REIN MEDICAL, ABB, EATON, BLACKBOX and many more.

➔ *kvm-tec - Top quality video in Full HD*

24-bit colour for exact image reconstruction. This means that when you look at your monitor every single pixel is accurate. Combined with a specially developed lossless video codec Full HD videos play smoothly in real-time. These devices are designed to minimise the delay from PC to monitor and achieve a latency of 5ms. Simply put, this means perfect audio-visual synchronisation in videos and no noticeable delay when using a mouse.

➔ *kvm-tec - It's all in the performance*

The extenders are so finely tuned to the bandwidth of the cables, that you can watch a video in Full HD while copying data to and from a USB stick without any drop in performance.

➔ *kvm-tec - Tough yet reliable*

The Austrian family business, kvm-tec, has decades of experience in the design of devices for tough 24/7 service. This is why their KVM Extenders are sought after for use in critical systems such as explosion prevention or in operating theatres and intensive care stations.

➔ *kvm-tec - USB Transparent or „what the PC sees"*

With our KVM Extenders you can use pretty much any USB device – (for storage devices the USB Memory Option is required). What the PC "sees" is the standard high-speed USB hub built in to the remote extender. A variety of USB devices can be plugged in to this hub and up to 3 further hubs may be connected.

➔ *kvm-tec - The orange cable – jack-of-all-trades*

USB and video data are transmitted over a single cable. A distance of up to 150 m can be covered with CAT 5/6/7 cables.

The fibre version reaches 500 m easily. They even have interchangeable SFP modules, which means that this distance can be increased up to 100 km as required. Bidirectional modules can also be used so that only a single fibre-optic cable is required.

➔ *kvm-tec - Completely reliable and top quality video*

A further feature of our KVM Extenders is the high quality digital transmission which ensures that the video gets to where it's going without degrading.

➔ *kvm-tec -Austrian designed and manufactured*

Quality begins with great design. Right from the initial phases of development our products were designed for industrial use: 24 hours per day, 7 days per week. The well-engineered power supplies in the extenders have been proven in the field to be suitable even when the power source has poor stability. The devices are designed to European standards and manufactured in Austria.

Our development team work through things logically using European standards and enjoy producing creative custom solutions.

➔ *kvm-tec - Amazing value for money thanks to a clever design*

We are often asked: "Why are your KVM extenders cheaper than equivalent products?" When designing our products kvm-tec goes for components that are used in bulk in the PC industry so are available at low prices. This has the added benefit of ensuring that our products are built from robust components. The "heart" of our products is a multi-layer PCB designed to be compact to keep costs down. Our extenders are so cheap that upgrading aging infrastructure (such as analogue extenders) is now highly affordable. We know that this concept works because our market share is growing and growing.

➔ *kvm-tec - The future is built – in*

Many customers still use old PCs with analogue outputs. With our VGA Option this is no problem, once the PC is upgraded the customer can simply switch the VGA cable for a DVI one and keep on going.

kvm-tec – Features and Options

Would you like anything else –

➔ *kvm-tec - the LOGO Option*

When ordering the Logo Option the customer can choose when they would like their logo to appear on the screen. They could have it shown on start-up or triggered by an external action. An example might be a monitor that usually shows the company's logo but when an alarm is triggered the extender would automatically connect to a security PC.

➔ *kvm-tec – A Functional Lock*

The lock function allows inputs from a workstation to be blocked. Particularly of use in banking or insurance where the customer may follow along on a monitor without being able to edit anything.In case of multiple operators, when one user is working on their screen the other user's screen can be blacked out.

➔ *kvm-tec – Show last Image*

During normal operation the extender will only display the live images from a PC. Occasionally PCs will crash and instead of seeing a black screen it would be nice if the user could see the last image the PC showed before it went down. To make sure that the operator knows when the image feed isn't live the frame of the image will flash red. This function is built in to our extenders and can be turned on and off by the user.

➔ *kvm-tec – Redundant Power Supply*

All kvm-tec extenders have very robust fail-safe power supplies. If the customer wants further power reliability then a redundant power supply is available. The power supply is mounted in the Rack Mounting Kit and can power up to 4 extenders. The redundant power supply has 2 completely independent circuits which may be run from different sources (e.g. normal power and UPS).

➔ *kvm-tec – 24V / 48V – a kvm trick*

All our devices are normally powered by 12 V supplies. Devices in the MVX and PROVX series are designed to also take power directly from a 24 V source. Our 24/28 V adapter is compatible with the extenders from the SVX, PROVX and MVX series and is capable of inputs of up to 50 V. The adapter can be mounted on our Rack.

➔ *kvm-tec – We like to keep things tidy*

Rack Mounting Kits are available in several variants, providing a way of neatly installing devices in to a server rack. DIN rail mountings are also available and are simple to attach.

➔ *kvm-tec – A great couple – the monitor and VESA*

The robust VESA bracket serves to attach an extender to a monitor. The extender and monitor are effectively become one, saving space and avoiding a tangle of cables.

➔ *kvm-tec – DUAL – for two*

The robust MVX Dual Mounting Kit is used to connect 2 MVX1(-F) extenders to a dual device. The included splitter cable is used to power both extenders.

➔ *kvm-tec – Smart software management*

Cordless updates for all devices. The data for the firmware is read from an image and saved in the extender. Updates are available for download for free.

➔ *kvm-tec – Updatemanager – the super organiser*

The Update Manager lets you manage the firmware on all your extenders. Devices can be set to automatically update each other: connect two extenders with different firmware versions together and the extender with the latest firmware will update the other. In a matrix switching system the firmware can be distributed in the background to all the extenders on the network without having any impact on the use of the system. Then when the administrator activates the update all the extenders will restart and be ready to go again within seconds.

➔ *kvm-tec – It’s all about sound*

The MVX and PROVX are sound capable. Stereo sound is transmitted in CD quality in both directions.

➔ *kvm-tec – RS 232 – the ever popular, simple and reliable*

With this Option you can transmit serial data with baud rates up to 230 400. Transmission includes TX, RX lines and one modem control line in each direction.

➔ *kvm-tec – VGA making it possible*

Want to use an extender with a PC that lacks digital video? The VGA Option for the MVX and PROVX extenders makes it possible. The VGA signal from the PC is converted directly in to a high quality DVI signal. A local output is provided with DVI-I video signals comprising of both the analogue and digital signals. On the remote side the signals are transferred to the monitor by way of DVI.

➔ *kvm-tec – LVDS – the slim component*

The LVDS Option is ideal for applications where you want to integrate the extender in to a monitor. This Option allows the extender to replace the electronics of the monitor and directly control the TFT panel over an LVDS interface. By doing so it's possible to construct very compact devices. These slim and compact designs are often used in medicine and HMI applications.

➔ *kvm-tec – Don't panic – the panic button*

The matrix switching system can be controlled via a button or a switch. Once configured, whenever the button is pressed the user is swapped to a second computer in the blink of an eye. Remembering key-combinations in high stress situations can be difficult, instead the user can just switch immediately with the panic button.

➔ *kvm-tec – We like to designing new things*

Our kvm-tec development team likes receiving requests for custom solutions, for example Logo Display, Show Last Image or conference room control system or even image recognition.

➔ *kvm-tec – USB 2.0 Memory Option*

Transmission always occurs as a transparent USB2.0 connection in High Speed mode. If you wish to use a USB storage device on the remote extender then the USB2.0 Memory Option must be activated.

➔ *kvm-tec – Plug and Play*

The devices have been designed such that during installation no attention must be paid to the order in which things are set up and connected; they just start working as soon as all the cables have been attached and the power plugged in. If you disconnect and reconnect a cable the system continues to work immediately without any further steps. Even in the case of power loss, regardless in what order, the devices will start again by themselves.

Smartline SVX1

Part No: 6501

The Extender whose price can't be beat
DVI USB2.0 KVM - Extender
Matrix Switching Option

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 4 channels in a 19"1U
- One CAT 5/6/7 cable required
- Local and remote monitor
- Flash firmware – upgradeable without cable
- High reliability and rugged design
- 19"rack mountable
- Sound and RS 232 externally extendable via USB

OPTIONS - pre–installed or unlockable by code

- USB Memory
- Matrix Switching

The **Smartline KVM - Extender SVX 1** is optimised for all signals such as DVI and USB. The transmission distance of 150 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions	97 x 40 x 104mm
Weight	540g per set
Power input:	6W per device
Ambient temperature	0 to 45° C
Material	Anodized aluminium
Power supply	12V 1A External power supply

DELIVERY INCLUDING

1 x SVX1 / PC	4 x Mounting pads
1 x SVX1 / Monitor	1 x Brief instruction
2 x Power Supplies	
1 x DVI-HDMI cable	
1 x USB cable	
4 x Rubber feet	

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Smartline SVX2

Part No: 6502

The Extender whose price can't be beat
DVI USB2.0 KVM - Extender
Matrix Switching Option

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 4 channels in a 19"1 U
- Two CAT 5/6/7 cable required
- Local and remote monitor
- Flash firmware – upgradeable without cable
- High reliability and rugged design
- 19"rack mountable
- Sound and RS 232 externally extendable via USB

OPTIONS – pre–installed or unlockable by code

- USB Memory
- Matrix Switching

The **Dual Smartline KVM - Extender SVX 2** is optimised for all signals such as DVI and USB. The transmission distance of 150 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions:	194 x 40 x 104mm
Weight:	1080g pro Set
Power input:	10W per device
Ambient temperature:	0 to 45° C
Material:	Anodized aluminium
Power supply:	12V 2A external power supply

DELIVERY INCLUDING

1 x SVX2 / PC
1 x SVX2 / Monitor
2 x Power supply
4 x DVI-HDMI cable
1 x USB cable
8 x Rubber feet
8 x Mounting pads
1 x Brief instruction

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Masterline MVX1

The Extender that can do it all
DVI / VGA USB2.0 KVM - Extender
Matrix Switching Option

Part No: 6701

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 4 channels in a 19“1U
- 24V Supply capable
- One CAT 5/6/7 cable required
- Local and remote monitor
- Flash firmware – upgradeable without cable
- High reliability and rugged design
- 19“rack mountable
- Screw-locked DVI jack

OPTIONS – pre-installed or unlockable by code

- USB Memory Option
- Matrix Switching
- Sound analogue in both directions in CD quality
- Analogue VGA – converted to DVI
- RS232

SPECIAL VARIANT

- LVDS Option for integrating into LCD Monitors

The **Masterline KVM - Extender MVX1** is optimised for all signals such as DVI and USB. The transmission distance of 150 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions:	97 x 40 x 104mm
Weight:	540g per set
Power input:	6W per device
Ambient temperature:	0 to 45° C
Material:	Anodized aluminium
Power supply:	12V 1A external power supply

DELIVERY INCLUDING

1 x MVX1 / PC	4 x Mounting pads
1 x MVX1 / Monitor	1 x USB/Audio cable (opt.)
2 x Power Supplies	1 x VGA/DVI cable (opt.)
1 x DVI cable	
1 x USB cable	
4 x Rubber feet	

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Masterline MVX2

The Extender that can do it all
DVI / VGA USB2.0 KVM - Extender
Matrix Switching Option

Part No: 6702

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play Installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 4 Extender in a 19“1HE
- 24 V capable
- Two CAT5/6/7 cable for USB and Video
- Local and remote monitor
- Flash Firmware - upgradable without cable
- High reliability and rugged design
- 19“rack mountable
- Screw-locked DVI jack

OPTIONEN – pre-installed or unlockable by code

- USB Memory
- Matrix Switching
- Analogue VGA –converted to DVI
- RS232
- Sound analogue in CD quality

The **Masterline KVM - Extender MVX2** is optimised for all signals such as DVI and USB. The transmission distance of 150 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions:	194 x 40 x 104mm
Weight:	1080g pro Set
Power input:	12W per device
Ambient temperature:	0 to 45° C
Material:	Anodized Aluminium
Power supply:	12V 1A external power supply

DELIVERY INCLUDING

1 x MVX2 / PC
1 x MVX2 / Monitor
2 x Power supply
2 x DVI cable
1 x USB cable
4 x Rubber feet
1 x USB/Audio cable (opt.)
1 x VGA/DVI cable (opt.)

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Masterline MVX1-F

The Extender that can do it all over huge distances

Part No: 6801

DVI / VGA USB2.0 KVM - Extender Fibre / 500m / 20km / 80km Matrix Switching Option

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play Installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 4 Extender in a 19"1HE
- 24 V capable
- One Duplex Fibre cable for USB and Video
- Local and remote monitor
- Flash Firmware - upgradable without cable
- High reliability and rugged design
- 19"rack mountable
- Screw-locked DVI jack

OPTIONEN – pre-installed or unlockable by code

- USB Memory
- Matrix Switching
- Analogue VGA –converted to DVI
- RS232
- Sound analogue in CD quality

SPECIAL VARIANT

- LVDS Option for integrating into LCD Monitors
- Single Mode SFP module up to 20km
- Single Mode SFP module up to 80km
- Bidir Single Mode SFP module 10km (1 fibre cable)

The **Masterline KVM - Extender MVX1F** is optimised for all signals such as DVI and USB. The transmission distance of 500 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions:	97 x 40 x 110mm
Transmission:	Multimode Duplex LC 50/125µ (OM2)
Weight:	540g per Set
Power input:	6W per device
Ambient temperature:	0 to 45° C
Material:	Anodized aluminium
Fibre model:	Class 1 Laser Product 1 according to DIN 40008/EN and VDE 0837

DELIVERY INCLUDING

1 x MVX1-F / PC	2 x SFP Module - Multimode
1 x MVX1-F / Monitor	1 x USB/Audio cable (opt.)
2 x Power supplies	1 x VGA/DVI cable (opt.)
1 x DVI cable	
1 x USB cable	1x power supply
4 x Rubber feet	4 x Mounting pads

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Masterline MVX2-F

The Extender that can do it all over huge distances

Part No: 6802

DVI / VGA USB2.0 KVM - Extender Fibre / 500m / 20km / 80km

- 500m distance at max 1920x1200 resolution
- Automatic Plug and Play Installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 4 Extender in a 19“1HE
- 24 V capable
- Two Duplex Fibre cable for USB and Video
- Local and remote monitor
- Flash Firmware - upgradable without cable
- High reliability and rugged design
- 19“rack mountable
- Screw-locked DVI jack

OPTIONEN – pre-installed or unlocked by code

- USB Memory
- Matrix Switching
- Analogue VGA –converted to DVI
- RS232
- Sound analogue in CD quality

SPECIAL VARIANT

- Single Mode SFP module up to20km
- Single Mode SFP module up to 80km
- Bidir Single Mode SFP module 10km (1 fibre cable)

The **Masterline KVM Extender MVX2-Fibre** is optimised for all signals such as DVI and USB. The transmission distance of 500 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimension:	140 x 40 x 104mm
Transmission:	Multimode Duplex LC 50/125µ (OM2)
Weight:	1080g per Set
Power Input:	12W per device
Ambient temperature:	0 to45° C
Material:	Anodized Aluminium
Power supply:	12V 1A external Power supply
Fibre model:	Class 1 Laser Product 1 according to DIN 40008/EN and VDE 0837

DELIVERY INCLUDING

1 x MVX2-F / PC	4 x SFP Modul - Multimode
1 x MVX2-F / Monitor	1 x USB/Audio cable (opt.)
2 x Power supply	1 x VGA/DVI cable (opt.)
2 x DVI cable	
1 x USB cable	
4 x Rubber feet	
4 x Mounting pads	

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Profiline PROVX1

The Extender with the built in power
DVI / VGA USB2.0 KVM - Extender
Matrix Switching Option

Part No: 6201

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 2 channels in a 19“1U
- 24V Supply capable
- One CAT 5/6/7 cable required
- Local and remote monitor
- Flash firmware – upgradeable without cable
- High reliability and rugged design
- 19“rack mountable
- Screw-locked DVI jack

OPTIONS – pre–installed or unlockable by code

- USB Memory
- Matrix Switching
- Sound analogue in both directions in CD quality
- Analogue VGA – converted to DVI
- RS232

SPECIAL VARIANT

- LVDS Option for integrating into LCD Monitors

The **PROFILINE KVM Extender PROVX1** is optimised for all signals such as DVI and USB. The transmission distance of 150 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions	220 x 45 x 130mm
Weight	1547 g per set
Power input:	12W per device
Ambient temperature	0 to 45° C
Material	Anodized aluminium
Power supply	Internal 100-240V

DELIVERY INCLUDING

1 x PROVX1/ PC
1 x PROVX1 / Monitor
2 x Power Supplies
1 x DVI cable
1 x USB cable
4 x Rubber feet

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Profiline PROVX2

The Extender with built in power
DVI / VGA USB2.0 KVM - Extender
Matrix Switching Option

Part No: 6202

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play Installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 4 Extender in a 19“1HE
- 24 V capable
- Two CAT5/6/7 cable for USB and Video
- Local and remote monitor
- Flash Firmware - upgradable without cable
- High reliability and rugged design
- 19 rack mountable
- Screw-locked DVI jack
- Internal power supply

OPTIONEN – pre-installed or unlockable by code

- USB Memory
- Matrix Switching
- Sound analogue in CD quality
- analogue VGA – converted to DVI
- RS232

The **PROFILINE KVM Extender PROVX 2** is optimised for all signals such as DVI and USB. The transmission distance of 150 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions	220 x 45 x 130mm
Weight	1547 g per set
Power input:	12W per device
Ambient temperature	0 to 45° C
Material	Anodized aluminium
Power supply	internal 100-240V

DELIVERY INCLUDING

1 x PROVX2/ PC
1 x PROVX2 / Monitor
2 x Power Supplies
2 x DVI cable
1 x USB cable
8 x Rubber feet

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Profiline PROVX1-F

The Extender with built in power over huge distances

Part No: 6301

DVI / VGA USB2.0 KVM - Extender Fibre / 500m / 20km / 80km Matrix Switching Option

- 150m distance at max 1920x1200 resolution
- Automatic Plug and Play Installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 2 Extender in a 19“1HE
- 24 V capable
- One Duplex Fibre cable for USB and Video
- Local and remote monitor
- Flash Firmware - upgradable without cable
- High reliability and rugged design
- 19“rack mountable
- Screw-locked DVI jack

OPTIONEN – pre-installed or unlockable by code

- USB Memory
- Matrix Switching
- Sound analogue in CD quality
- Analogue VGA –converted to DVI
- RS232

SPECIAL VARIANT

- Single Mode SFP module up to20km
- Single Mode SFP module up to 80km
- Bidir Single Mode SFP module 10km (1 fibre cable)

The **PROFILINE KVM Extender PROVX 1F** is optimised for all signals such as DVI and USB. The transmission distance of 500 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions	220 x 45 x 130mm
Weight	1547 g per set
Power input:	12W per device
Ambient temperature	0 to 45° C
Material	Anodized aluminium
Power supply	intern 100-240V
Fibre model:	Class 1 Laser Product 1 according to DIN 40008/EN and VDE 0837

DELIVERY INCLUDING

1 x PROVX2/ PC	2 SFP Modul -Mulitmode
1 x PROVX2 / Monitor	
2 x Power Supplies	
2 x DVI cable	
1 x USB cable	
8 x Rubber feet	

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Profiline PROVX2-F

The Extender with built in power over huge distances

Part No: 6301

DVI / VGA USB2.0 KVM - Extender Fibre / 500m / 20km / 80km Matrix Switching Option

- 500m distance at max 1920x1200 resolution
- Automatic Plug and Play Installation
- Transparent USB 2.0 extension
- Full HD Video performance
- DVI extension without loss of quality
- Ultra compact up to 2Extender in a 19“1HE
- 24 V capable
- Two Duplex Fibre cable for USB and Video
- Local and remote monitor
- Flash Firmware - upgradable without cable
- High reliability and rugged design
- 19“rack mountable
- Screw-locked DVI jack

OPTIONEN – pre-installed or unlockable by code

- USB Memory Option
- Matrix Switching
- Analogue VGA –converted to DVI
- RS232
- Sound analogue in CD quality

SPECIAL VARINANT

- Single Mode SFP module up to20km
- Single Mode SFP module up to 80km
- Matrix Switching

The **PROFILINE KVM - Extender PROVX 2-Fibre** is optimised for all signals such as DVI and USB. The transmission distance of 500 m is completely lossless. The transparent USB 2.0 interface supports keyboard, mouse, sound modules, printers, smartcard readers, serial adapters and more. Memory stick and hard disk support is available with the USB Memory Option which may unlocked after deployment by purchasing a license code. The USB Memory Option can be enabled and disabled for security purposes.
Manufacturer guarantee of 2 years – 5 years extended guarantee available (Handling costs per KVM Extender set)

TECHNICAL SPECIFICATION

Dimensions	220 x 45 x 130mm
Weight	1547 g per set
Power input:	12W per device
Ambient temperature	0 to 45° C
Material	Anodized aluminium
Power supply	internal 100-240V
Fibre model:	Class 1 Laser Product 1 according to DIN 40008/EN and VDE 0837

DELIVERY INCLUDING

1 x PROVX2/ PC	4 SFP Modul -Mulitmode
1 x PROVX2 / Monitor	
2 x Power Supplies	
2 x DVI cable	
1 x USB cable	
8 x Rubber feet	

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Option

For our KVM - Extender

Part Nr: as pricelist

USB 2.0 Memory Option for SVX / MVX / PROVX / EVX / PVX

The transfer is always transparent in the USB 2.0 High Speed mode. If you want to connect mass storage devices at the remote part, the USB memory option has to be installed.

USB 2.0 transfer:

- Localy via PC connection
- Remote via internal 2.0 HUB
- Each of the 4 USB ports delivers 500mA current

Restrictions:

- The local part must be connected to a root hub on the PC
- USB devices on the remote part must be directly connected without use of a hub.
- The achievable transmission rate is approximately 64 Mbit / sec.

Sound für MVX / PROVX

Stereo transmission in CD quality, Resolution: 16 bit, 44.1 kHz
Line in / Line out

Restrictions for MVX: To keep the MVX extender compact must be choose between sound or RS232 option.

RS232 for MVX / PROVX

V24 Serial Interface
Unlimited parity and number of bits
57600 baud maximum transfer rate
9-pin connector
Transmits all modem signals(DCD, DTR, DSR, RTS, CTS and RI)

Fibreoptic for PROVX-F / MVX-F

PROVX-F and SVX-F Extenders are fitted as standard with a plugable SFP Modul for Multimode Fibreoptic.
Therefore it can be switched anytime to other Modules.
e.g.Singlemode up to 20km/ 80km, or Singlemode Bidirectional (only 1 Fibre) for distances up to 20 km.

VGA Analog for MVX / PROVX

The VGA signal is converted on the local side to DVI and transmitted as DVI signal without any loss of quality. This ensures optimal image quality at any distance.

Switching Option

The Total Connection

Part No. 6133

For KVM - Extender series SVX / MVX / PROVX

The Switching Option turns our SVX Smartline, MVX Masterline and PROVX Profiline extenders in to the perfect KVM matrix switch connected by a standard over-the-counter network switch.

- Multiple PCs can be controlled from a single workstation
- Multiple workstations can be connected with multiple PCs – max. 48 ports
- Dual- and multi-head support for up to 10 monitors
- Switch via the on-screen menu, hotkeys or over external interfaces such as RS232 or Ethernet
- convenient password system and user-rights management for increased security
- Users can be put in groups
- Automatically switch to a backup PC if primary PC goes down (by configuration)
- Switching is instant
- Distributed intelligence across every endpoint
- Sharing mode
- Perfect video transmission with minimal latency
- Name identification – if connections are broken or reconnected to a different port, the system will stay correctly configured – making for straightforward installation
- A mixture of VGA and DVI video signals can be used
- Mix and match – a mixture of fibre and copper devices as well as different device types can be connected together
- One license per workstation is required
- Amazing value for money

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MATRIX SWITCH

- This system can be used to put together a KVM matrix switch.
- A large number of computers can be connected to a large number of monitors/workstations, allowing the user to connect to a specific PC with the push of a button.
- The display contents is sent through without any delay and the PC can be controlled by the user with a mouse, keyboard, touchscreen or a wide range of USB devices.
- The switching system is very flexible in its configuration, and depending upon the application different user rights Users, Master Users and Admins can be configured.

MULTIHEAD

- Multiple monitors can be grouped together so that computers with multi-head displays can switch together as a single unit.

SHARING MODE

- A sharing mode is also available – multiple users can view the same screen at once.
- The switching system is based upon a distributed system which means that every extender device has control over the entire switching system – from every PC you can bring up the on-screen display and make connections to PCs, disconnect PCs and give users and PCs names.
- You can switch between individual PCs each with their own configurable keyboard shortcut. The system can also be controlled externally. This requires either a spare port on the network switch or a serial port. The use of these ports allow for the status of the entire system to be monitored and managed.
- The switching system is compatible with the other extender Options such as Sound, VGA, RS232, LVDS or any combination thereof.
- The matrix switching system has been designed so that it can be set up with very little training. Despite its simplicity it can be configured to use a user/password system to ensure security.
- If your computer setup includes a PC in reserve the extender can be set up to switch to it automatically if your primary PC goes down.

MASTER VIEW MODE

- Connection Overview – from one workstation it is possible to connect other workstations to other computers.
- Whether or not one user can take control of a PC away from another, or if an administrator can take control of a specific PC in case of emergency, can be defined in the settings.

USER PC BINDING

- A compatibility mode for replacing existing systems. Users can carry on having the same controls as they are used to.

TECHNICAL SPECIFICATIONS

max. no. ports:	48, e.g. 24 PCs and 24 workstations
Network Setup:	for use with a dedicated network via a gigabit switch. Requires port-to-port bandwidth of 1Gbps between every port. IGMP snooping.
Switching:	via Hotkey
Automatically connects:	with default PC after restart.
PC names:	max. 16 symbols long

LVDS Option

Part No: 6843

The slim solution for HMI with many applications. for MVX KVM - Extender

The LVDS Option - a special variant of our extender for individual HMI solutions. This slim and compact design is often used in industry, medical technology, digital signage, home automation and other areas.

- The LVDS Option allows the extender to replace the electronics of the monitor and directly control the TFT panel. A 30-pin LVDS interface controls the panel while a 5-pin socket is connected to the backlight controller.
- The MVX Extender replaces the control electronics of the monitor and in doing so results in a very slim compact design
- Provides panel power supply lines at 3, 3V, 5V and 12 V
- Max resolution of 1920 x 1200 at 60 Hz
- Backlight control via on-screen display
- Depending on the desired resolution the appropriate DDC EDID data is provided to the PC.
- A variant without the USB sockets is available upon request. This reduces the entire height of the board to 10 mm.
- The LVDS Option is available for fibre and CAT extenders, not fitted by default and must be requested at the time of ordering the extenders. This Option can also be integrated in to the kvm-tec Matrix Switching System.

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Pin	Display Interface J5000
Molex 52808-3070	
1	RXO0-
2	RXO0+
3	RXO1-
4	RXO1+
5	RXO2-
6	RXO2+
7	GND
8	RXOC-
9	RXOC+
10	RXO3-
11	RXO3+
12	RXE0-
13	RXE0+
14	GND
15	RXE1-
16	RXE1+
17	GND
18	RXE2-
19	RXE2+
20	RXEC-
21	RXEC+
22	RXE3-
23	RXE3+
24	GND
25	NC
26	NC
27	NC
28	+U Display
29	+U Display
30	+U Display

x

Pin	Backlight Interface J4000
JST B5B-PH-K-S(LF)(SN)	
1	12V
2	GND
3	BL_ON
4	DIM 0-5V
5	GND

Rack Mounting Kit

Part No: 6430

For KVM - Extender Serie PROVX

The 19“ Rack Shelf is for assembling kvm-tec PROFILINE Extenders. It has a universal hole pattern, which also enables a mounting of non 48.3 cm (19”)-devices. Sturdy steel sheet construction with stress-resistant black powder coating, guaranteed high quality kvm-tec equipment.

PROVX Extenders can be accomplished by screws directly.

TECHNical SPECIFICATION

Depth:	250mm
Dimensions:	440 x 248 x 44,5mm
Rack storage:	19“
Height;	1HE = 44,5mm
Material:	2mm steel, powder coated

DELIVERY INCLUDING

1 x Rack shelf
4 x Cage nuts

USED FOR

2 x. PROVX1(-F)
1 x. PROVX2(-F)

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Rack Mounting Kit

Part No: 6130

For KVM - Extender series SVX / MVX

RMK-F (Faceplate)

The 19” Rack Shelf has a universal hole pattern, which also enables a mounting of non 48.3 cm devices. Sturdy steel sheet construction with stress-resistant black powder coating, guaranteed high quality KVM TEC equipment.

The Rack Mounting Kit RMK-F is for assembling kvm-tec Smartline SVX and Masterline MVX Extenders. It consists of 19” Rack Shelf and an Alu - Faceplate.

TECHNICAL SPECIFICATION

Depth:	250mm
Dimensions:	440 x 248 x 44,5mm
Rack storage:	19“
Height:	1HE = 44,5mm
Material:	2mm steel, powder coated

DELIVERY INCLUDING

1 x Rack shelf
4 x Cage nuts
1 x Aluminium faceplate

USED FOR

4 x SVX1 / MVX1(-F)
2 x SVX2

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Rack Mounting Kit

Part No: 6131

For KVM - Extender series SVX / MVX

RMK-FN (Faceplate + Power Supply)

The 19” Rack Shelf has a universal hole pattern, which also enables a mounting of non 48.3 cm devices. Sturdy steel sheet construction with stress-resistant black powder coating, guaranteed high quality KVM TEC equipment.
The Rack Mounting Kit RMK-FN is also for assembling kvm-tec Smartline SVX and Masterline MVX Extenders. It consists of 19” Rack Shelf, Alu- Faceplate and Power Supply.

TECHNICAL SPECIFICATION

Depth:	250mm
Dimensions:	440 x 248 x 44,5mm
Rack storage:	19“
Height:	1HE = 44,5mm
Material:	2mm steel, powder coated
Input voltage:	100-240V
Output voltage:	12V
Current:	2,5A
Power:	30Watt
Certification:	CB, UL, cUL, FCC, GS, CE PSE, BSMI, LPS

DELIVERY INCLUDING

1 x Rack shelf
4 x Cage nuts
1 x Aluminium faceplate
1 x Splitter cable
1 x Power Supply 12V
1 x Kettle cable

USED FOR

4 x SVX1 / MVX1(-F)
2 x SVX2

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Rack Mounting Kit

Part No: 6132

For KVM - Extender series SVX / MVX

RMK-FRN (Faceplate + redundant power supply)

The rack mounting kit RMK-FRN is used to mount kvm-tec Smartline SVX and Masterline MVX extenders. It is equipped with rack shelf, faceplate and 2 power supply units, which are summarized in a redundancy module. This ensures maximum reliability and a professional installation in a control cabinet.

TECHNICAL SPECIFICATION

Depth:	250mm
Dimensions:	440 x 248 x 44,5mm
Rack storage:	19“
Height:	1HE = 44,5mm
Material:	2mm steel, powder coated
Input voltage:	100-240V
Output voltage:	12V
Current:	3A
Power:	36Watt
Certification:	FCC, CE, GS, cUL

DELIVERY INCLUDING

1 x Rack shelf
4 x Cage nuts
1 x Aluminium faceplate
1 x Redundancy module
2 x Power cable

USED FOR

4 x SVX1 / MVX1(-F)
2 x SVX2

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DIN Rail Mounting

Part No: 6136

For KVM - Extender series SVX / MVX

The **DIN rail mounting** is used for space-saving installation in control cabinets or on DIN rails. The attachment to the SVX and MVX extenders is possible in several ways. This mount comes with clip and 6 mounting screws.

TECHNICAL SPECIFICATION

Dimension:	104 x 25 x 40mm
Material:	1mm steel

DELIVERY INCLUDING

1 x DIN rail retainer
1 x Mounting bracket
4 x Cheese-head screw

USED FOR

1 x SVX1 / MVX1(-F)

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Din Rail Power Supply

For our KVM - Extender Series SVX / MVX

Power supply for space-saving installation in control cabinets or on DIN rails for up to 10 extenders.

TECHNICAL SPECIFICATION	DN 20-12 Part No. 7060	DN 40-12 Part No. 7070	DN 100-12 Part No. 7080
Input AC:	88-264V	88-264V	88-264V
Input DC:	124-370V	134-370V	124-370V
Output:	12V	12V	12V
Current:	1,7A	3,4A	7,5A
Power:	20Watt	40Watt	90Watt
Certification:	CE, TÜV EN, UL	CE, TÜV EN, UL	CE, TÜV EN, UL
Dimensions:	23 x 90 x 99mm	40 x 90 x 99mm	55 x 90 x 99mm
Max. no. of extender:	2	4	10

DELIVERY INCLUDING

1x DIN rail power supply DN20-12 / DN40-12 / DN100-12
1x Extender DC connection cable 20cm
1x Installation instructions

OPTIONAL

5x Splitter cable – Art. Nr. 7032

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Dual Mounting Kit

Part Nr: 6137

For KVM Extender series MVX

The robust **MVX Dual Mounting Kit** is used to connect 2 MVX1(-F) extenders to a dual device. The included splitter cable is used to power both extenders.

TECHNICAL SPECIFICATION

Dimension:	197 x 9,5 x 104mm
Material:	1mm aluminium

DELIVERY INCLUDING

1 x Fitting panel
4 x Cheese-head screw
1 x Octobus-4x-Splitter cable
1 x Power supply 12V 2A

USED FOR

2 x MVX1(-F)

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Underdesk Mounting Plate

For KVM - Extender series PROVX

Part No: 6937

The table mount for extenders ensures a simple and fast under counter mounting directly at the workplace.

TECHNICAL SPECIFICATION

Dimension:	250 x 100mm
Material:	3mm aluminium

DELIVERY INCLUDING

1 x Aluminium plate
2 x Countersunk bolt

USED FOR

1 x PROVX1(-F) / EVX1 / PVX1

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Underdesk Mounting Kit

For KVM - Extender series SVX / MVX

Part No: 6135

The table stand for the SVX and MVX Extender provides a simple and quick under-desk mounting directly in the workplace. The 2 piece brackets are supplied with 4 mounting screws.

TECHNICAL SPECIFICATION

Dimension:	97 x 12 x 20mm
Material:	1mm steel

DELIVERY INCLUDING

2 x Mounting bracket
4 x Cheese-head screw

USED FOR

1 x SVX1 / MVX1(-F)

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VESA Bracket

Part No: 6736

For KVM - Extender Series SVX / MVX

This robust **VESA bracket** is used to attach an SVX1 or MVX1(-F) extender to a VESA mounting compliant monitor. The extender and monitor are effectively merged together, saving space and preventing a tangle of cables.

Due to the clever construction, the entire system can be mounted on a regular VESA stand using the same mounting holes.

TECHNICAL SPECIFICATION

Dimension:	197 x 9,5 x 104mm
Material:	1mm aluminium
VESA:	75x75mm, 100x100mm

DELIVERY INCLUDING

1 x VESA Montageblech
4 x Cheese-head screw 4x10mm (for VESA)
2 x Cheese-head screw 3x10mm (for Extender)

USED FOR

1 Stk. SVX / MVX1(-F)

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Power Supply

For KVM - Extender SVX / MVX / PROVX

Wall Power Supply 1A

Part No: 7020

TECHNICAL SPECIFICATION

Input voltage:	100-240V
Output voltage:	12V
Current:	1A
Power:	12Watt
Safety:	CE, TÜV GS
Dimensions:	63.6 x 29.5 x 45.6mm

Wall Power Supply 2A

Part No: 7050

TECHNICAL SPECIFICATION

Input voltage:	100-240V
Output voltage:	12V
Current:	2A
Power:	24Watt
Safety:	CE, TÜV GS, LPS
Dimensions:	75 x 34 x 43mm

Wall Power Supply International

Part No: 7000

TECHNICAL SPECIFICATION

Input voltage:	100-240V
Output voltage:	12V
Current:	1A
Power:	12Watt
Certification:	CE, TÜV GS, FCC, cUL
Dimensions:	70 x 46 x 35mm

Desktop Adapter

Part No: 7030

TECHNICAL SPECIFICATION

Input voltage:	100-240V
Output voltage:	12V
Current:	2,5A
Power:	30Watt
Certification:	CE, cUL, FCC, TÜV GS
Dimensions:	86.8 x 47.3 x 32.3mm

Octopus Cable - 4x Splitter cable

Part No: 7031

Connect up to 4 devices with one power supply.

Concertina Cable - 5x Splitter cable

Part No: 7032

Connect up to 5 devices consecutively with one power supply.

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24-48VDC Power Adapter

For our KVM - Extender series SVX / MVX

Part No: 7033

This DC-DC power adapter was designed specifically to power up to 4 extenders from DC power supplies such as 24 V UPS (uninterruptible power supply) or 48 V systems.

TECHNICAL SPECIFICATION

Input DC:	24-48V
Output:	12V
Current:	3A
Power:	36Watt
Certification:	CE
Dimensions:	25 x 87 x 42mm
Max. no. of extender:	4

DELIVERY INCLUDING

1x 24-48VDC power adapter
1x Extender DC connection cable 20cm
1x screw for RMK mounting
1x Installation instructions

OPTIONAL

5x Splitter cable – Part No. 7032

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smart connections

PE Video Line Pro

Part No: 8001

Video Converter

On Screen Menu
Mouse operation
Light pen / mouse option
Perfect picture on LCD Monitor
Flicker free
Razor sharp
Colour Hardcopy
Low power consumption
Maintenance free
All-purpose, highly versatile

- Suitable as a substitute for 15kHz industrial monitors via a converter with a modern LCD monitor
- The PE line video converter was specially developed for industrial and power plant applications and has proven its value in thousands of installations.
- The converter digitizes the input signal in RGB mode; caches the complete image and displays it in a video source independent format. In contrast to converters with single line cache, this method provides greater flexibility and can be use in a wide variety of situations.
- Even non-standard resolutions are perfectly mapped on LCD monitors
- Preset timings for ABB Mod 300, Altim ALCONT1 and ALCONT2, FOXBORO, HARTMANN & BRAUN Contronic P, Honeywell TDC3000, Measurex, SIEMENS Teleperm M, YOKOGAVA Alspa ZS Micro Z and many more

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