

Let's connect!  
KVM can be so simple  
kvm-tec

# Master

# line fiber



[www.kvm-tec.com](http://www.kvm-tec.com)

The highly optimized KVM Extender over IP has a range of 500m/1640 ft (SFP up to 160km/99mi) at a resolution of 1920x1200 @60 Hz and is available in fiber as single version. The perfect tuning of kvm-tec video compression with a low latency time enables a delay-free transmission of the signals. USB and video is transmitted via a duplex multimode fiber cable (LC). With DVI extension without loss of quality Full HD videos can be transmitted in real time.

The transparent USB 2.0 interface already supports tablets and touch screens, sound modules, printers and much more in the standard version. USB upgrade is available for memory sticks and USB hard drives. High reliability and robust design make the low-cost kvm-tec extender ideal for many applications.

The kvm-tec feature „USB save“ prevents the intrusion of viruses via the USB interface by deactivating mass storage devices. With the Switching upgrade the MVX can be integrated with standard components in Matrix Switching System up to 48 endpoints.

DVI-ID/DVI-I/USB 2.0 Extender over IP  
Resolution 1920x1200@60 Hz  
Max. distance 160km/99mi in Fiber  
(opt with SFP modules)  
SFP Module Multimode up to 500m/1640ft  
(Alternative with single mode up to 20km/12mi)  
Full HD videos in real time  
Only one duplex multimode fiber cable (LC)  
for USB and video  
USB 2.0 transparent - in house development  
can be used in Matrix Switching System up  
to 48 endpoints

## .... smart connections

USB save feature

Automatic Plug & Play installation

DVI extension without loss of quality

Ultra compact up to 4 extenders in 19"  
1RU/lockable DVI connector

Local (CPU) / remote (CON) Monitor output

Firmware Flash Upgrade without cable  
Transmission rate max 480 Mbit/s

screw on DVI Connector

## kvm-tec upgrades

(Pre-installed and unlockable)

- USB memory
- Analog VGA - transmitted as DVI
- Sound analog in both directions in CD quality
- Matrix Switching System up to 48 endpoints

kvm-tec = C<sup>4</sup>



## 6801L Local CPU unit

## 6801R Remote CON unit



**CONNECT** kvm-tec Extender in Matrix Switching Systems and you can go up to 2000 endpoints and have a super fast switching. You can connect a wide range of different sources (servers, operator workstation, PC, surveillance cameras, video walls and much more) and operate & control the system with centralized management

Network Environment; 1 or 10 Gbit bandwidth  
IGMP Snooping ( for videosharing)



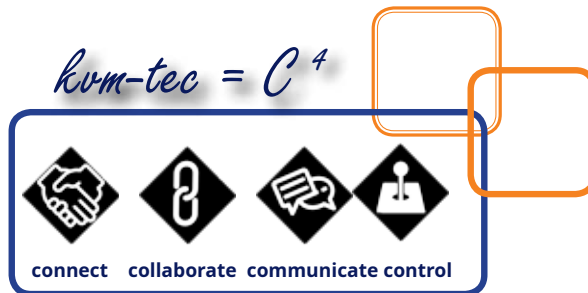
**COLLABORATE** with standard network components. kvm-tec Extender are compatible with standard network components and all kvm-tec Extender can collaborate in real time with 60Hz in full HD or 4K resolution



**COMMUNICATE** in your Switching System with our kvm-tec Switching Manager Software. The local and remote Extender are arranged in an optimized way and the Extender status is highlighted in color. With the kvm-tec Systems computers and servers can be located away from work desk into central server room for a high security level. The environment heat and noise are reduced at the work station and an ergonomic and quiet workplace for all users is possible



**CONTROL** your application in a much better way with all our in-house developments, like USB 2.0 transmission, video compression without latency, only one cable for USB and video transmission, zero latency. With our unique features each user can access multiple PC sources and can control and operate up to 16 screens with one mouse & keyboard. Video sharing can be done seamless and a central video wall can be integrated for sharing all informations in real time



## Technical Specifications

		MVX1-F Local/CPU	MVX1-F Remote/CON
<b>Interfaces</b>	Video	1 x DVI in (no HDCP) 1 x DVI out	1x DVI-D out
	USB 2.0	1 x USB-B to PC	4 x USB-A (devices )
	Audio	1 x 3,5mm jack plug (Line In) 1 x 3,5mm jack plug (Line out)	1 x 3,5mm jack plug Line In) 1 x 3,5mm lack plug (Speaker)
<b>Video</b>	Signal type Resolution (digital) Resolution (analog) (opt.) Color mode	DVI-D max. 1920x1200 @ 60Hz max. 1920x1200 @ 60Hz 24bit	DVI-D max. 1920x1200 @ 60Hz max. 1920x1200 @ 60Hz 24bit
<b>Audio</b>	Type Bandwidth	analogue 16bit, 44kHz, 2ch	analogue 16 bit, 44kHz, 2ch
<b>USB</b>	Spezifikation Type: Rate	USB 2.0 transparent max. 480 Mbit/s mass storage devices & camera optional	USB 2.0 transparent max. 480 Mbit/s mass storage devices & camera optional
<b>Casing</b>	Material Dimension (W x H x D)	anodized aluminum 97,5 x 40 x 103,5mm/3,83 x 1,57 x 4,07 inch	anodized aluminum 97,5 x 40 x 103,5mm/3,83 x 57 x 4,07 inch
	Weight Weight for shipment SET	302kg/1,66lb 0,75kg/1,65 lb	291g/0,64lb 0,75kg kg /1,65 lbs lb
<b>Power Supply</b>	Type	wall power supply unit 12 VDC 1A	wall power supply unit 12 VDC 1A
<b>Power Input</b>	Operation	6W	6W without USB devices
<b>Operation environment</b>	Temperature Humidity	0 bis +45 °C /32 to 113 °F < 80%, non -condensing	0 bis +45 °C /32 to 113 °F < 80%, non- condensing
<b>Storage environment</b>	Temperature Humidity	-25 bis 80 °C /-13 to 176 F < 80%, non condensing	-25 bis 80 °C /-13 to 176 F < 80%, non condensing
<b>Cooling</b>		free air convection	free air convection
<b>MTBF</b>		82.820 calculated hours approx. 10 years	82.820 calculated hours approx. 10 years
<b>Conformity</b>		CE, FCC	CE, FCC
<b>Warranty</b>		2 years (5 years optional)	2 years (5 years optional)
<b>Delivery content</b>	Devices	1 x MVX 1-F local (CPU)	1 x MVX1-F remote (CON)
	Power Supply	1 x wall power supply unit I 12V 1A (EU-plug or INT plug)	1 x wall power supply unit I 12V 1A (EU-plug or INT plug)
	Cables	1 x DVI - DVI cable 1,8m/5.9ft 1 x USB cable 1,8m/5.9ft 1 x VGA-DVI cable 1,8m/5.9ft 2 x Audio cable 1,8m/5.9ft	
	SFP Module	1 x SFP Module Multimode up to 500m/1640 ft.	1 x SFP Module Multimode up to 500m/1640 ft.
	Mounting	(alternativ with Single-Mode up to 20km/12 mi Item Nr 6835)	(alternativ with Single-Mode up to 20km/12 mi Item NR 6835)
	Manual	4 x rubber feet  QUICK INSTRUCTION Manual Download: www.kvm-tec.com	4 x rubber feet



### Part number & short description

Part No	Order Nr	short description
6601	MVX1-F	Masterline Extender Single Fiber – Set UPC 051497031862
6801L	MVX1L-F	Masterline Extender Single Fiber –Local Unit (CPU) UPC 051497031527
68021R	MVX1R-F	Masterline Extender Single Fiber–Remote Unit (CON) UPC 051497031534
6841 6839 6840 6842	MVX1-MO MVX1 -S MVX1- VGA MVX1-SWO	USB Memory upgrade Sound upgrade Analog VGA upgrade MVX1 Swtiching upgrade (Switching over OSD menu)
4002	KVM-SM48	UPC051497031824 The intelligent software - kvm-tec Switching Manager enables convenient and intuitive management of KVM extenders in the switching system.
9003 9002	GV5JU GV5J	Warranty extension to 5 years per UNIT Warranty extension to 5 years per SET
<b>ADD-ONS</b> 6130 6131	RMK-F RMK-FN	Rack Mounting Kit with front panel UPC051497031718 Rack Mounting Kit with front panel and Power supply UPC 051497031732
6132	RMK-FRN	Rack Mounting Kit with front pane and red. Power supply UPC051497031749
6135 6136 6736	UMK TSB VH	Mounting Kit for under the table Din Rail Mounting Kit 6136 Vesa Mounting
<b>SFP Module</b> 7009 7010 7007 7011	LWLMM LWLSM20 LWLSM80 LWLBIDI	LWL Multi Mode - SFP Module uo to. 500m/1640 ft LWL Single Mode - SFP Module up to . 20km/12mi LWL Single Mode - SFP Module up to 80km/49mi LWL Single Mode - SFP Module BiDi Set 20km/12mi
6831	AL-MVX1-F-SM	alternativ Single Mode Module up to 20km/12mi



point to point



switching system

point to point max. distance 150m/492ft in copper

Switching System optional up to 48 endpoints