

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

# Master line



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

The highly optimized KVM Extender over IP has a range of 150m/492ft at a resolution of 1920x1200 @60 Hz and is available in copper 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 CAT5e/6/7 cable. Due to the 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 in the standard version, printers and much more. 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 MVX1 Extender can be integrated with standard network components to a Matrix Switching System up to 48 endpoints.

DVI-D /DVI-I/ USB 2.0 Extender over IP  
Resolution 1920x1200@60 Hz  
Max. distance 150 m / 492ft in copper  
Full HD videos in real time  
USB 2.0 transparent- in house development  
Only one CAT5e/6/7 cables for USB and video  
Can be used in the Matrix Switching System  
up to 48 endpoints

USB save feature  
Automatic Plug & Play installation  
DVI extension without loss of quality  
Ultra compact up to 4 Extender in 19" 1RU  
Local/CPU - remote/CON Monitor output  
Firmware Flash Upgrade without cable  
screw on DVI connector  
Transmission rate max 480 Mbit/s  
Warranty 2 years, warranty  
extension to 5 years possible

## kvm-tec upgrades

already installed and unlockable with code

- 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>



## 6701L Local CPU unit

## 6701R 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 camers, 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



## Tecnical Spezifications

|                              |   | MVX1 Local/CPU   | MVX1 Remote/CON  |
|------------------------------|---|--|--|
| <b>Interfaces</b>            | Video   | 1 x DVI in (no HDCP)<br>1 x DVI out  | 1 x 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)<br>1 x 3,5mm jack plug (Line out)  | 1 x 3,5mm jack plug Line In)<br>1 x 3,5mm lack plug (Speaker)                          |
| <b>Video</b>                 | Signal type<br>Resolution (digital)<br>Resolution (analog) (opt.)<br>Color mode | DVI-D<br>max. 1920x1200 @ 60Hz<br>max. 1920x1200 @ 60Hz<br>24bit   | DVI-D<br>max. 1920x1200 @ 60Hz<br>max. 1920x1200 @ 60Hz<br>24bit                       |
| <b>Audio</b>                 | Type<br>Bandwidth   | analogue<br>16bit, 44kHz, 2ch  | analogue<br>16 bit, 44kHz, 2ch   |
| <b>USB</b>                   | Spezification<br>Type:<br>Rate  | USB 2.0<br>transparent<br>max. 480 Mbit/s<br>mass storage devices & camera<br>optional   | USB 2.0<br>transparent<br>max. 480 Mbit/s<br>mass storage devices & camera<br>optional |
| <b>Casing</b>                | Material  | anodized aluminum  | anodized aluminum  |
|                              | Dimension (W x H x D)   | 97.5 x 40 x 103.5 mm/<br>3.83x1.57x4.07 inch   | 97.5 x 40 x 103.5 mm/<br>3.83x1.57x4.07 inch   |
|                              | Weight<br>Weight for shipment<br>SET  | 302g/0,66 lb<br>0,75kg/1,54b   | 291g/0,64 lb<br>0,75kg/1,54b   |
| <b>Power Supply</b>          | Type  | wall power supply unit<br>12 VDC 1A  | wall power supply unit<br>12 VDC 1A  |
| <b>Power Input</b>           | Operation   | 6W   | 6W without USB devices   |
| <b>Operation environment</b> | Temperature   | 0 bis +45 °C /32 bis 113 °F)   | 0 bis +45 °C /32 bis 113 °F)   |
|                              | Humidity  | < 80%, non -condensing   | < 80%, non- condensing   |
| <b>Storage environment</b>   | Temperature   | -25 bis 80 °C /-13 to 176 F  | -25 bis 80 °C /-13 to 176 F  |
|                              | Humidity  | < 80%, non condensing  | < 80%, non condensing  |
| <b>Cooling</b>               |   | free air convection  | free air convection  |
| <b>MTBF</b>                  |   | 82.820 calculated hours<br>approx. 10 years  | 82.820 calculated hours<br>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 local (CPU)  | 1 x MVX1 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)<br>1 x USB cable 1,8m (5.9ft)<br>1 x VGA-DVI cable 1,8m (5.9ft)<br>2 x Audio cable 1,8m (5.9ft) |  |
|                              | Mounting  | 4 x rubber feet  | 4 x rubber feet  |
|                              | Manual  | Quickinstallation<br>manual download: www.kvm-tec.com  |  |



## Part Number & Short description

| Part No                      | Order Nr                                    | short description   |
|------------------------------|---|---|
| 6701<br>6701L<br>6701R       | MVX1<br>MVX1L<br>MVX1R                      | Masterline Extender Single – Set <i>UPC 051497031855</i><br>Masterline Extender Single –Local Unit /CPU <i>UPC 05149702500</i><br>Masterline Extender Single –Remote Unit /CON<br><i>UPC 051497031510</i> |
| 6841<br>6839<br>6840<br>6842 | MVX1-MO<br>MVX1 -S<br>MVX1- VGA<br>MVX1-SWO | USB Memory upgrade<br>Sound upgrade<br>Analog VGA upgrade<br>MVX1 Switching upgrade (Switching over OSD menu)   |
| 4002                         | KVM-SM48                                    | UPC051497031824<br>The intelligent software - kvm-tec Switching Manager enables Convenient and intuitive management of KVM extenders in the switching system.   |
| 9003<br>9002                 | GV5JU<br>GV5J                               | Warranty extension to 5 years per UNIT<br>Warranty extension to 5 years per SET   |
| <b>ADD-ONS</b><br>6130       | RMK-F                                       | Rack Mounting Kit with front panel <i>UPC051497031718</i>   |
| 6131                         | RMK-FN                                      | Rackmounting Kit with front panel and Power supply<br><i>UPC 051497031732</i>   |
| 6132                         | RMK-FRN                                     | Rackmounting Kit with frontpanel and red. Power supply<br><i>UPC051497031749</i>  |
| 6135<br>6136<br>6736         | UMK<br>TSB<br>VH                            | Mounting Kit for under the table<br>Din Rail Mounting Kit 6136<br>Vesa Mounting   |



point to point



switching system

max. distance 150m/492ft in copper

Switching System optional up to 48 endpoints