

Let's connect!
KVM can be so simple



... FLEXline

kvm-tec customized System

MAXflex is the genius product from FLEXline the clever customized KVM System from kvm-tec. All FLEXline Extender have an ultra slim casing, are available in a single and dual version, have embedded sound are compatible with standard network components and are delivered with kvm-tec Switching Manager Software-switch up@work.

Flexline saves you space in a rack.

4 single or 4 dual Extender in 1RU

USB2.0 in-house development, USB save feature, USB Emulation Mode & USB Sharing



flex

www.kvm-tec.com

MAXflex single redundant in fiber

The highly optimized KVM Extender over IP has a range of 500m/1640ft, 20km/77mi, 160km/99mi at a resolution of 1920x1200 @60 Hz and is available in fiber as single redundant version

Redundant for high security in critical applications.

The perfect tuning of kvm-tec video compression with a low latency time (<5ms) enables a delay-free transmission of the signals. USB and video is transmitted via duplex LC fiber cable. Due to the DVI extension Full HD videos can be transmitted in real time. USB memory, sound, RS232, analog VGA- as DVI transfer are already included.

With the included switching upgrade up to 1000 endpoints, the MAXflex Extender can be integrated into a matrix switching system up to 1000 endpoints in conjunction with a standard network switch. kvm-tec Switching Manager - the intelligent software enables convenient management and intuitive operation of KVM extenders in the switching system. A Windows PC or Tablet with network interface is required for commissioning and operating the software.

... smart connections

- DVI-D/ DVI-I USB2.0 Extender over IP
- single redundant in fiber
- max resolution 1920 x 1200 @60 Hz
- max distance 160km/99mi in fiber
- only one cable for USB and Video,
- Sound embedded & sound analog (opt)
- full HD videos in real time
- USB transmission rate max 480Mbit/s
- firmware flash upgrade without cable
- VGA in - DVI out ,RS 232 interface
- DVI extension without loss of quality
- Feature - freeze last image
- also suitable for 24V systems

Softwarefeatures

Mouse glide &Switch

up to 8 screens can be operated and controlled with 1 mouse & 1 keyboard

kvm-tec = C⁴



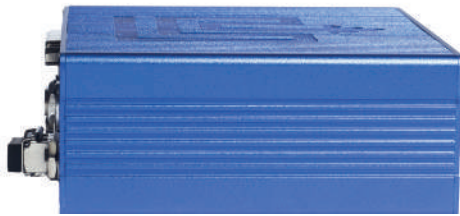
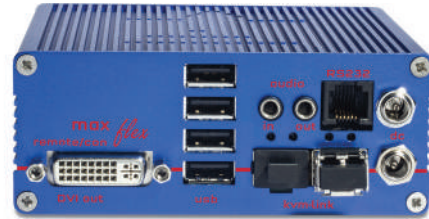
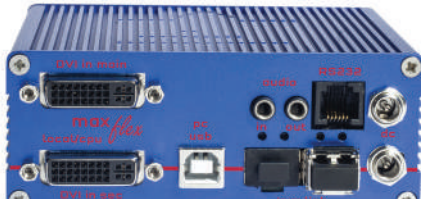
max flex
Part No.: 6016



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kvm-tec

6016L Local CPU unit

6016R 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 Environemt; 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 high-lighted 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

kvm-tec = C⁴



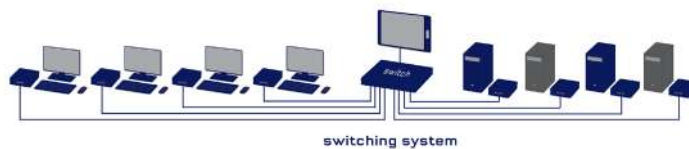
connect collaborate communicate control



Switching Manager Software

The intelligent software solution from kvm-tec for managing all KVM extenders connected in a matrix switching system up to 1000 endpoints. The local and remote parts can be connected or disconnected by touch or mouse click. For a quick overview, the extenders are arranged in an optimized way and the status of the extenders is highlighted in color.

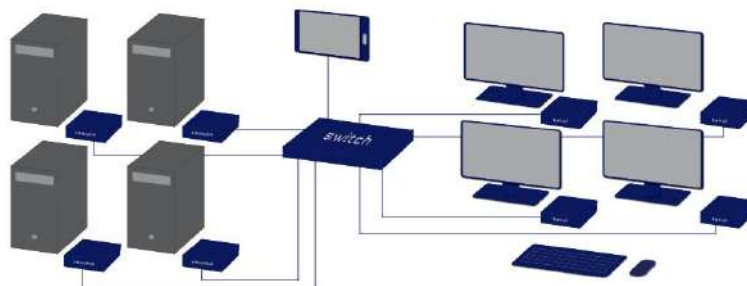
- stores up to 5 various scenarios
 - display of the USER sessions
 - update management for all extenders in the switching system
 - Extender setting definition
 - Multihead groups and static partner
 - Mouse glide&switch
 - 4K Multiview Commander Management
 - unlocking kvm-tec upgrades
 - displays & Update the current firmware version in the Switching System
- Network environment 1 Gigabit Bandwidth: IGMP Snooping



SOFTWARE - FEATURE

Mouse Glide & Switch

with only one mouse and one keyboard, multiple PCs can be operated from one workstation. The arrangement of up to 8 monitors via the Switching Manager can be horizontal or vertical and is comparable to a virtual desktop wall. With the stand alone solution up to 4 screens/PCs can be operated and controlled.





Technical Specifications

| | | MA1-Local/CPU | MA1 Remote/CON |
|-----------------------|---|---|---|
| Interfaces | Video | 1 x DVI in 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 (Line In) 1 x 3,5mm jack (Line out) | 1 x 3,5mm jack Line In) 1Vpp 1 x 3,5mm lack (Speaker) 2x10mW@32Ohm |
| Video | Signal type Resolution (digital) | DVI-D max. 1920x1200 @ 60Hz | DVI-D max. 1920x1200 @ 60Hz |
| | Signal type Resolution (analog) (opt.) Color mode | DVI-I max. 1920x1200 @ 60Hz 24bit | DVI-I max. 1920x1200 @ 60Hz 24bit |
| Audio | Type Bandwidth | analogue / embedded 16bit, 44kHz, 2ch | analogue/embedded 16 bit, 44kHz, 2ch |
| USB | Specification 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 |
| RS 232 interface | | transparent up to 115200 baud +/-5V,CTS/DTR handshake | transparent up to 115200 baud +/-5V,CTS/DTR handshake |
| Casing | Material Dimension (w x H x D) Weight Shipping weight SET 1895 g /4.17 lb | anodized aluminum 108 x 43 x 107,5 mm 4.25 x 1.69 x 4,23 inch 295 g / 0.65 lb shipment weight 1005g/2,21 lb | anodized aluminum 108 x 43x 107,5 mm 4.25 x 1.69 x 4.29 inch 295 g/ 0.65 lb shipment weight 890 g/ 1.96lb |
| Power Supply | Type | wall power supply unit 12 VDC 1A redundant max 35V | wall power supply unit 12 VDC 1A redundant max 35V |
| Power Input | Operation | 12W | 12W without USB devices |
| Operation environment | Temperature Humidity | 0 to +45 °C /32 to 113 °F) < 80%, non -condensing | 0 to +45 °C /32 to 113 °F) < 80%, non- condensing |
| Storage environment | Temperature Humidity | -25 to 80 °C /-13 to 176 F < 80%, non condensing | -25 to 80 °C /-13 to 176 F < 80%, non condensing |
| Cooling | | free air convection | free air convection |
| MTBF | | 82.820 calculated hours approx. 10 years | 82.820 calculated hours approx. 10 years |
| Conformity | | CE, FCC | CE, FCC |
| Warranty | | 2 years (5 years optional) | 2 years (5 years optional) |
| Delivery content | Devices | 1 x MA1-F local (CPU) | 1 x MA1-F remote (CON) |
| | Power Supply | 1 x wall power supply unit 12V 1A (EU-plug or INT plug) | 1 x wall power supply unit 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) | |
| | SFP module | 2 x SFP module multimode up to 500 m /1640ft duplex LC | 2 x SFP module multimode up to 500m /1640ft duplex LC |
| | Mounting | 4 x rubber feet | 4 x rubber feet |
| | Manual | Quickinstallation manual download: www.kvm-tec | |



Part Number & Short description

| Part No. | Order No. | Short description |
|-----------------|---------------|---|
| 6016 | MA1-F | Maxflex Extender Single Fiber – Set EAN 0798190109312 UPC 051497113094 |
| 6016L | MA1-FL | Maxflex Extender Single Fiber –Local Unit /CPU EAN 0798190109329 UPC 051497113100 |
| 6016R | MA1-FR | Maxflex Extender Single Fiber –Remote Unit /CON EAN 0798190109336 UPC 051497113117 |
| 9003 9002 | GV5JU GV5J | Warranty extension to 5 years per UNIT Warranty extension to 5 years per SET |
| ADD-ONS 6231 | UMK-FLEX | Rack Mounting Kit for under the table for FLEXline EAN 0798190109466 UPC 051497113247 |
| 6232 | RMK-FLEX-F | Rack Mounting Kit with front panel for FLEXline EAN 0798190109473 UPC 051497113254 |
| 6233 | RMK-FLEX-FN | Rack Mounting Kit with front panel and Power supply EAN 0798190109480 UPC 051497113261 |
| 6234 | RMK-FLEX | Rack Mounting Kit with front panel and redundand Power supply for FLEXline EAN 0798190109503 UPC 051497113285 |
| 6235 | DINMK-FLEX | Din Rail Mounting for FLEXline EAN 0798190109510 UPC 051497113292 |
| 6236 | VH -FLEX | Vesa Mounting Kit for Flexline EAN 0798190109527 UPC 051497113308 |
| 6835 | AL MV-F-SM | Alternativ Single Mode Module up to 20km/12mi |



point to point



switching system

point to point max. distance 160km/99mi in fiber

Switching System up to 1000 endpoints