

Let's connect!

KVM can be so simple  
kvm-tec

... FLEXline

kvm-tec customized System

MASTERflex is the universal 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 and are compatible with standard network components and are delivered with kvm-tec Switching Manager Software

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



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

MASTERflex single redundant in copper

MASTERflex single redundant is a highly optimized KVM Extender over IP and covers a range of 150m/492ft at a resolution of 1920x1200@60Hz and is available in copper as single version.

Redundant for high security in critical applications

The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows signals to be transmitted without delay. USB and video are transmitted via CAT5e/6/7 cable.

The in-house developed transparent USB 2.0 interface supports supports USB devices like tablets, touch screens, sound modules, printers. The USB upgrade supports USB sticks and USB hard drives. The kvm-tec „USB save“ function prevents virus intrusion via the USB interface by disabling mass storage devices. Sound analog, VGA and USB memory upgrade are preinstalled and unlockable

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



... smart connections

DVI-D/ DVI-I /USB2.0 Extender over IP

single redundant in copper

max resolution 1920 x 1200 @60 Hz

max distance 150m/492ft

only one cable for USB and video

sound embedded & sound analog

full HD videos in real time

USB transmission rate max 480Mbit/s

firmware flash upgrade without cable

VGA in - DVI out

DVI extension without loss of quality

4 single extender in 1RU

Feature - freeze last image

PoE Version (Switch supports PoE)

also suitable for 24V systems



master

Part No.: 6012

flex

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## 6012L Local CPU unit

## 6012R 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, Cameras for surveillance, 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

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



connect collaborate communicate control



## Technical Specifications

		MV1-Local/CPU	MV1-R Remote/CON
Interfaces	Video	1 x DVI in 1x DVI out	2x 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	analogue / embedded	analogue/embedded
	Bandwidth	16bit, 44kHz, 2ch	16 bit, 44kHz, 2ch
USB	Specification	USB 2.0	USB 2.0
	Type Rate	transparent max. 480 Mbit/s mass storage devices & camera optional	transparent max. 480 Mbit/s mass storage devices & camera optional
Casing	Material	anodized aluminum	anodized aluminum
	Dimension (w x H x D)	108 x 43 x 107,5 mm	108 x 43x 107,5 mm
	Weight	4.25 x 1.69 x 4,23 inch	4.25 x 1.69 x 4.29 inch
	Shipping weight SET 1895 g /4.17 lb	295 g / 0.65 lb shipment weight 1005g/2,21 lb	295 g/ 0.65 lb shipment weight 890 g/ 1.96lb
Power Supply	Type	wall power supply unit 12 VDC 1A redundant max 35 V	wall power supply unit 12 VDC 1A redundant max 35 V
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 MV local (CPU)	1 x MVX 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)	
		1 x VGA-DVI cable 1,8m (5.9ft) opt	
Mounting	1 x Audio cable 1,8m (5.9ft) opt		
Manual	4 x rubber feet	4 x rubber feet	
	Quickinstallation manual download: <a href="http://www.kvm-tec">www.kvm-tec</a>		

# master

Part No.: 6012

# flex

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## Part Number & Short Description

Part No.	Order No.	Short description
6012	MV1	Masterflex Extender Single – Set EAN 0798190109107 UPC 051497112882
6012L	MV1-L	Masterflex Extender Single –Local Unit /CPU EAN 0798190109114 UPC 051497112899
6012R	MV1-R	Masterflex Extender Single –Remote Unit /CON EAN 0798190109121 UPC 051497112905
6041	MV-SO	MASTERflex sound upgrade EAN 0798190109220 UPC 051497113001
6042	MV-VGA	Masterflex analog VGA upgrade EAN 0798190109237 UPC 051497113018
6043	MV-MO	MASTERflex USB memory upgrade EAN 0798190109244 UPC 051497113025
6033	POE-Set	FLEXline PoE Upgrade Set EAN 0798190109626 UPC 051497113407
6034	POE-Unit	FLEXline PoE Upgrade Unit EAN 0798190109633 UPC 051497113414
9003	GV5JU	Warranty extension to 5 years per UNIT
9002	GV5J	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



point to point



switching system

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

Switching System up to 100 endpoints

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