



# Mightier MultiScreen

The Mightier MultiScreen is a professional grade KVMA switch delivering ultimate flexibility for users who wish to share one or more high resolution screens and modern USB peripherals between multiple computers. Designed to enable up to four multihead computers to be controlled from a single high resolution KVM console using either dual link DVI or high definition analog video links, the switch uses Mightier's Real USB 2.0 Emulation technology thereby enabling USB HID devices to be continuously emulated to each computer.

This unique technology enables instantaneous and reliable hotkey switching whilst also supporting the extra keys and features of enhanced keyboards and mice. Furthermore, the Mightier MultiScreen includes two independently switchable USB 2.0 channels and an audio channel, giving the user the flexibility to attach selected peripherals to different computers. Models are available supporting single, dual, triple, or quad head DVI or VGA computers.



You can of course still switch all connected devices to any one of the connected computers as with any other KVM switch.

## Channel selection options

The Mightier MultiScreen can be switched using selectable keyboard hotkeys, 3 button mice or the front panel controls. Optionally, you can also use the Four Button Toggle remote switch to make your selection. These switching options allow you to rapidly reassign connected devices to any of the connected computers.

## Broad USB 2.0 Hi Speed device support

A vast range of USB devices can be connected to the Mightier MultiScreen, from non standard human interface devices to printers and scanners. This gives great flexibility. For example, you could be scanning a set of documents onto one computer whilst working on another and printing from yet another, all at the same time. The USB 2.0 switching action has been carefully engineered to ensure maximum computer reliability when connecting and disconnecting USB devices.

## Options port for control, synchronization and upgrade

An 'Options' port enables the FRDM MKVM 4041 to be remotely switched using simple ASCII codes. When the channel is switched, the same ASCII codes are echoed to the 'Options' port and so, by linking 'Options' ports, two or more units can be switched in synchrony to switch more than 4 video heads. The port enables a 4 button switch unit to be used with the Mightier MultiScreen. The same port can also be used to upgrade the firmware to guarantee that your hardware investment continues to deliver real value well into the future.

## FEATURES

### Dual link DVI-I with extended profile DDC EDID

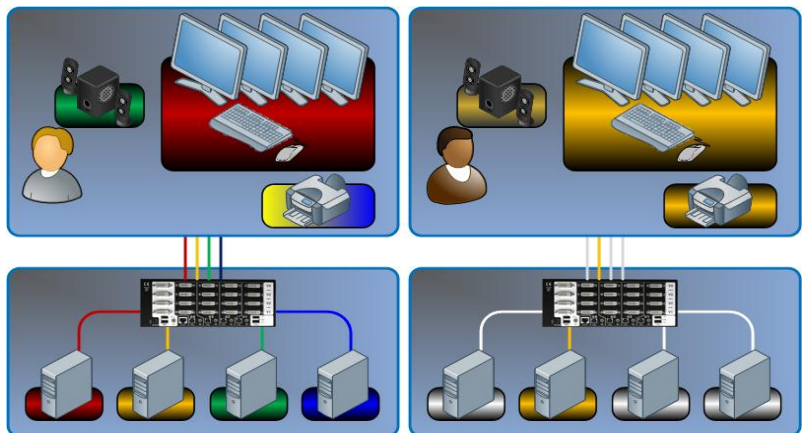
The Mightier MultiScreen features full dual link DVI video delivering 4 megapixel resolutions per head at 60Hz. Because the Mightier MultiScreen features DVI-I, you can also use a choice of digital or analogue sources. The extended DDC EDID profile ensures that the switched graphics card is always optimized to work with your screen. The dual link DVI capabilities enable users to work at very high resolutions including 2K (2048 x 1080) on each head for post production or WQXGA (2560 x 1600) per head for detailed medical imaging.

### Real Emulation USB2.0 technology

The FRDM MKVM 4041 belongs to the first KVMA range of switches to feature Mightier's advanced Real USB Emulation technology. Emulated USB provides an instantaneous and reliable switching action and makes keyboard hotkey and mouse switching possible. Previous implementations have used generic emulations and consequently have only been able to support the most basic keyboard and mouse features. Mightier's revolutionary Real Emulation technology overcomes this frustrating limitation by emulating the true character of the connected devices to all the computers simultaneously. This means that you can now use the extra function keys, wheels, buttons and controls that are commonly found on modern keyboards and mice. With the FRDM MKVM 4041, a whole new group of users can take advantage of the flexibility KVM switches have to offer. Users in Architecture, Graphic Design, Post Production, Animation, Medical Imaging etc. often need to use specialized interface devices such as graphics tablets, 3D explorers, joysticks, and so on. The FRDM MKVM 4041 makes all of this possible.

### Independent simultaneous device selection

Flexibility is key to the Mightier MultiScreen. The switch enables you to use the KVMA console to work on one computer whilst your USB peripherals are connected to other computers and your speakers are playing music from yet another.





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The Mightier MultiScreen is a professional grade KVMA switch delivering ultimate flexibility for users who wish to select between computers or select mixed inputs from each

## TECHNICAL SPECIFICATIONS

Hardware compatibility:	All computers with USB interfaces
Software compatibility:	Operates with all known software and operating systems including Windows (all), DOS, Linux, Unix, BSD, all Sun OS, all Mac OS, NetWare etc.
Computer connections at switch:	USB2.0 type B, Dual-link DVI-I, 3.5mm stereo jack
Local KVM console connection:	Video: Dual-link DVI-I (Dual x 2 or Quad x 4) Keyboard/Mouse: 2 x USB type A Switched USB: 2 x USB2.0 type A Audio: 3.5mm stereo jack Other Connections: Options (fash upgrade, sync with other MKVM-DVI - MS and RS232 triggered power switches): Modular 10P10C
Physical design:	2.5U high metal case 26mm (w), 15mm (d), 10mm (h)
Power:	2.5mm DC jack (power adapter included),100-240VAC 50/60Hz input to power adapter, 5VDC 2A output from power adapter
Operating temperature:	0°C to 40°C / 32°F to 104°F
Approvals:	CE, FCC



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