

# UltraMatrix E-Series



## 2 – 4 user KVM matrix switch

Connects 1,000 computers to two, four, or more user stations

Available in multi-platform or lower cost PC version

Powerful OSD interface for configuration and switching

Security features with login and computer access control

## Features and Benefits

- Powerful and expandable, yet economical
- Security system with login and computer group lists prevents unauthorized configuration and access
- Video resolution up to 1600 x 1280
- Multi-platform units have serial VT220 terminal emulation for access to UNIX hosts, routers, and other serial devices
- Advanced on-screen display (OSD) makes configuration easy and informs you of status with user friendly messages
- Multi-lingual OSD – English, French, German, Spanish, Italian, Portuguese
- International keyboard support for European and Asian languages
- Status screen shows inter-box communication, current connections, computer power, and other information
- PC platform units support PS/2, PS/2 wheel, and USB keyboard and mouse
- Multi-Platform units also support SUN keyboard and mouse
- Supports HV sync, composite sync, and sync-on-green video
- Access and control routers, hubs and other serial devices
- Serial control allows KVM switching from serial port commands
- Free firmware upgrades for product enhancements and new Software features available at [www.rose.com](http://www.rose.com)
- Rackmount kits available in 19", 23", and 24" sizes
- Made in USA

## The UltraMatrix™ "E" Advantage . . .

The UltraMatrix "E" series represents the latest in KVM matrix switch technology, at an affordable price. The E-series UltraMatrix allows you to connect multiple users to as many as 1,000 computers. The UltraMatrix E-Series is available in several sizes: 2x4, 2x8, 2x16, 4x8, 4x16, 1x8, and 1x16 and either PC or multi-platform.

The advanced distributed design of the UltraMatrix uses networking communication technology to reduce cost, eliminate single points of failure, and increase reliability. Use the on-screen menus to configure, name, and select computers, and show connections.

Units easily connect together with bus cables to make a seamless and truly scalable KVM matrix solution. The advanced distributed design of the UltraMatrix uses networking communication technology to reduce cost, eliminate single points of failure, and increase reliability.

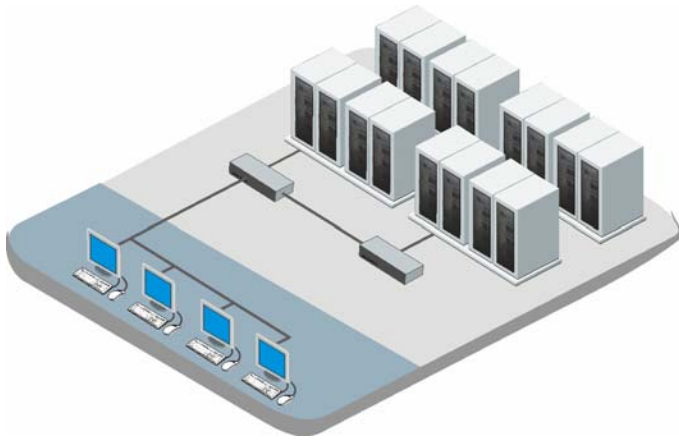
With the multi-platform version you can connect almost any computer with a PS/2, Sun, USB, or serial interface. For example, access a Sun USB computer from a PC keyboard and mouse, or other combinations. When accessing a serial device the on-screen display becomes a color VT220 terminal.

Once you install the UltraMatrix its value increase since it has flash memory. Firmware updates are available from [rose.com](http://rose.com). This ensures your product will be compatible with the newest products and technologies. Call us today for more information on this and other Rose products.



Perfect for server rooms

## Typical Application



**Models** UltraMatrix E-Series switches are available in several models. They have fixed port configurations and plug-in expansion cards. The 4xE units connect 4 users with 4, 8 or 16 computers. The 2xE units connect 2 users with 4, 8, or 16 computers. The E-Series switches can be connected together giving access to as many as 1000 CPUs.

**Cables** Rose's UltraCable streamlines cable connections to UltraMatrix, simplifying cable management and improving system reliability. Order the computer or user cable by the computer's KVM connector style and desired length. We stock a large variety of cable types in lengths up to 100 feet. Please specify standard resolution (1024x768 or less) or high resolution (greater than 1024x768). Expansion cables are ordered by length. You need one cable between boxes for every two KVM stations.

**Installation** UltraMatrix is easy to install. You simply connect your computers and KVMs to the UltraMatrix ports. Access the on-screen menu and configure each switch.

**Operation** Use simple keyboard commands to access computers and view system status. Helpful screen messages indicate the status of all connections. To allow maximum versatility, users can connect in four different modes: view, share, control, and private.

**On-screen menu** UltraMatrix excels with its on-screen menu technology. The intuitive interface uses pop-up menus to make selections. User-friendly help lines are shown for each item. The interface can be programmed for English, French, German, Spanish, Italian, or Portuguese. You can easily configure CPU names, security, appearance, screen saver and many other features with ease and style. Use the on-screen menu to connect to computers by name, view connection status, and observe system status in real time.

**Serial devices** The OSD is so powerful that it is actually a color VT220 terminal. You can configure any computer port to be serial. When you connect to a serial device you get a 24x80 screen with two status lines. You can access the serial device just as if you were connected with a terminal. Linux serial ports will show directory lists in color. This feature is only available on multi-platform units.

**Keyboard and Mouse** UltraMatrix fully emulates keyboard and mouse. It works on all major operating systems such as Windows, Solaris, Linux, UNIX, SGI, and OSX. Use any combination of PS/2, USB, and Sun (multi-platform only) including PS/2 wheel and serial mice. USB (PC, Apple, and Sun) is for the computer side only, not on the KVM side. It is compatible with European and Asian languages.

**Flash Memory** To support the latest devices, UltraMatrix contains flash memory. We provide free, lifetime firmware upgrades, available from our FTP site. Using the serial port, load new firmware into the UltraMatrix to support new equipment or add new features.

**Serial control** Each card has a global serial port for flash upgrade, diagnostics, and control. You can send data to one of these serial ports to switch any keyboard to any computer or to read the status of which computers are connected to which KVM stations.

**Options** To locate your computer or KVM further than 20 feet, use our coax high-resolution cables and ViewLink or CrystalView extenders to go as far as 1,000 feet on CAT5 and 10km. on fiber. Rackmount kits are available for 19", 23", or 24" racks.

### Part Numbers

4xE units	Platform	Users	Computers	Rackmount**
EP4-4x4U	PC	4	4	RM-UCnn
EP4-4x8U	PC	4	8	RM-UCnn
EP4-4x16U	PC	4	16	RM-UCnn
EP4-2x16U	PC	2	16	RM-UCnn
EP4-2x16U/E2	PC	2	16	RM-UCnn
EP4-1x8U/E2	PC	1	8	RM-UCnn
EP4-1x16U/E2	PC	1	16	RM-UCnn
EE4-4x4U	Multi	4	4	RM-UCnn
EE4-4x8U	Multi	4	8	RM-UCnn
EE4-4x16U	Multi	4	16	RM-UCnn
EE4-2x16U	Multi	2	16	RM-UCnn
EE4-2x16U/E2	Multi	2	16	RM-UCnn
EE4-1x8U/E2	Multi	1	8	RM-UCnn
EE4-1x16U/E2	Multi	1	16	RM-UCnn
<b>2xE units</b>				
EP2-1x4U	PC	1	4	RM-UBnn
EP2-2x4U	PC	2	4	RM-UBnn
EP2-2x8U	PC	2	8	RM-UBnn
EP2-1x8U/E*	PC	1	8	RM-UBnn
EP2-1x16U/E*	PC	1	16	RM-UCnn
EP2-2x16U	PC	2	16	RM-UCnn
EE2-2x4U	Multi	2	4	RM-UBnn
EE2-2x8U	Multi	2	8	RM-UBnn
EE2-2x16U	Multi	2	16	RM-UCnn
EE2-1x8U/E*	Multi	1	8	RM-UBnn
EE2-1x16U/E*	Multi	1	16	RM-UCnn

\* 1X models are usually used as expansion units

\*\* For rackmount specify nn= 19", 23", or 24"

### Expansion card

UMC-EXP2 Expansion card when ordered separately  
2xE uses quantity one, 4xE uses quantity two

UMC-EXP2RJ RJ45 expansion card

### Specifications

Dimensions	4 8 port: 16.7" W x 4.85" D x 1.75" H (1U)
	42.4 W x 12.3 D x 4.4 H (cm)
16-port:	16.7" W x 4.85" D x 3.50" H (2U)
	42.4 W x 12.3 D x 8.9 H (cm)
Weight	4/8-port: 4 lbs (1.8 kg) 16-port: 8 lbs (3.6 kg)
Power	Auto Switching, 90 - 240 VAC, 45 watts
Connectors	Power: IEC 320 standard receptacle
	CPU/KVM connector: DB25 female
	Expansion: DB15 male/female
Video bandwidth	RS232: RJ12 (6 pin)
	1x4 / 1x8 / 2x8: 250 MHz
	1x16 / 2x16 / 4x8 / 4x16: 100 MHz
Video sync	Accepts HV, composite, and sync-on-green
Chassis	Electro galvanized steel, black powder coated
Controls	Lighted Power On / Off Switch
Indicators	LEDs: Power, 4-16 select, 4-16 CPU power
Environmental	0°- 45° C, 5%-80% non-condensing relative humidity
MTBF	50 Khrs
Approvals	UL, cUL, TUV, CE



Rear view of UltraMatrix E-series, 2x8 (top), 4x16 (bottom)

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