

# UltraMatrix 4xE



## 4 user KVM matrix switch

Connect 1,000 computers to four or more user stations

Available in multi-platform or lower cost PC version

Fixed port configurations and plug-in expansion ensures low system cost

## Features and Benefits

- Powerful and expandable, yet low cost
- Modular design makes units simple to install, expand, and maintain
- Security system with user ID, password, and profile prevents unauthorized configuration and access
- Uses UltraCable™ for superior cable management with lengths of up to 100 feet
- Video resolution up to 1280 x 1024
- Advanced Visual Interface (AVI) on-screen display informs you of connection status with user friendly messages
- Multi-lingual AVI - English, French, German, Spanish, Italian, Portugese
- Status screen shows inter-box communication, connections, computer power, and other information
- Pre-configuration feature allows installation without powering down servers
- Connect more than 4 users by adding local KVM stations at each switch
- Flash memory with free lifetime upgrade of firmware keeps compatibility with latest devices

## The UltraMatrix 4xE™ Advantage...

UltraMatrix 4xE™ offers the latest in KVM matrix switch technology, at an affordable price. The 4xE allows you to connect four or more keyboards, monitors, and mice to eight or sixteen computers per chassis, expandable to as many as 1,000 computers.

UltraMatrix 4xE comes in several sizes: 4x8, 4x16, 1x8, and 1x16 and either PC or multi-platform. The UltraMatrix 4xE reduces clutter, saves physical space, and reduces equipment and power costs. Use the Advanced Visual Interface to configure the unit, name computers, select computers, and to show connections.

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

Local monitor connection, security, flash memory, system status, and a long list of other features ensures the UltraMatrix will streamline your data center or server room. Call us for more information on this and other excellent Rose products.



UltraMatrix Advanced Visual Interface



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## Typical Application



**UltraMatrix Models** UltraMatrix 4xE switches are available in several models. They have fixed port configurations and plug-in expansion cards. The 4x8 and 4x16 units connect 4 users with 8 or 16 computers. The 1x8 and 1x16 units add access to 8 or 16 more computers and add another user port at each switch. These extra user ports can be used for local access or as redundant access. With the optional expansion cards, the 4xE switches are connected together so four users can have non-blocking access to as many as 1000 computers.

**Cables** Rose's UltraCable streamlines the cable connections to UltraMatrix, simplifying cable management and improving system reliability. Order the computer or user cable by the computer's keyboard, monitor, and mouse connector style and desired length. We stock a large variety of cable types in lengths up to 100 feet. You should specify standard resolution (800x600 or less) or high resolution (greater than 800x600). Expansion cables are ordered by length and are usually connected in a bus. You need two cables for each switch you want to add.

**Installation** UltraMatrix is easy to install. You simply connect your computers and keyboards, monitors, and mice to the UltraMatrix ports using the UltraCable. Configure each switch's address and connect the switches together with the expansion cables. Access the on-screen display from the Advanced Visual Interface (AVI), configure settings such as computer names and security, and save it in flash memory. You'll be impressed by the simplicity and appearance of the AVI. Since the switches are networked together, configuring one switch configures them all.

**Operation** You can tailor the UltraMatrix to suit your style of operation by configuring the level of security that you desire. You can either auto-assign security settings to KVM stations or require users to log into the switch with a user ID and password. The user profile then grants access rights to designated computers and controls other characteristics. Use simple keyboard commands to access computers and system status. The Advanced Visual Interface gives helpful messages to indicate the status of all connections. To allow maximum versatility, users can connect in four different modes: view, share, control, and private. Each card also has a serial port if you wish to control the connection of any user station to any computer by the serial data link of another computer.

**Keyboard and Mouse** UltraMatrix fully emulates the keyboard and mouse, so computers can be booted at any time. It supports all operating systems such as Windows 95/98/NT/2000, Linux, Sun Solaris/Open Windows, Apple, and Unix workstations. Keyboard and mouse can be PC or Sun. Five types of computer mice are directly supported including wheel mice. USB and Apple are supported with inexpensive external converters.

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

**Advanced Visual Interface** UltraMatrix excels with its Advanced Visual Interface (AVI) on-screen display technology. The interface is intuitive since it uses pop-up boxes to make selections. Help lines are shown for each item to make the interface even more user-friendly. The interface can be programmed for English, French, German, Spanish, Italian, or Portuguese. You can easily configure the computer names, security, appearance, screen saver and many other features with ease and style. Use the AVI to connect to computers by name, see connection status, and observe system status in real time.

Computer	Power	Slot	User	KVM	CPU Usage	Status
5-6	On	2	David	3	14%	Share mode
9-12	On	3	Sharon	14	14%	Share mode
13-16	On	4	User 5	12	14%	Not logged in
17-20	On	1	143	15	14%	Share mode
21-24	On	2	12	12	14%	Share mode
25-28	On	3	12	12	14%	Share mode
29-32	On	4	12	12	14%	Share mode
33-36	On	1	14	14	14%	Not logged in
37-40	On	2	128	128	14%	Share mode
41-44	On	3	128	128	14%	Not logged in
45-48	On	4	128	128	14%	Not logged in
49-52	On	1	399	399	14%	Timed out
53-56	On	2	399	399	14%	Timed out
57-60	On	3	399	399	14%	Timed out
61-64	On	4	399	399	14%	Timed out

Real-time view from AVI of computer power, card location, firmware version, KVM type, CPU connections, users logged in, and connection status

**Options** To locate your computer, keyboard, monitor, or mouse further than 20 feet, use our coax high-resolution cables, ViewLink™ extenders, or CrystalView™ extenders to go as far as 1000 feet. Rack mount kits are available for 19", 23", or 24" racks.

### Part Numbers

- EP4-4X8U PC 4xE switch for 4 users and 8 computers
- EP4-4X16U PC 4xE switch for 4 users and 16 computers
- EE4-4X8U Multi-platform 4xE switch for 4 users and 8 computers
- EE4-4X16U Multi-platform 4xE switch for 4 users and 16 computers

### Following models are usually used as expansion units

- EP4-1X8U PC 4xE switch for 1 user and 8 computers
- EP4-1X16U PC 4xE switch for 1 user and 16 computers
- EE4-1X8U Multi-platform 4xE switch for 1 user and 8 computers
- EE4-1X16U Multi-platform 4xE switch for 1 user and 16 computers
- UM2-EXP Plug-in card for expansion, two required, add /E2 to part number above when pre-installed
- RM-UCnn 16 port rack mount kit, n= 19", 23", or 24"

### Specifications

Dimensions	16.7" W x 4.85" D x 3.50" H (2 RU) 42.4 x 12.3 x 8.9 cm.
Weight	8 lb. (3.6 kg.)
Power	Auto Switching, 90 - 240 VAC, 45 watts
Connectors	Power: IEC 320 standard receptacle CPU/KVM connector: DB25 female Expansion: HD15 male/female RS232: RJ45 6 conductor
Video bandwidth	1x8 / 2x8: 250 Mhz, 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-cond. relative humidity
Approvals	UL, cUL, TUV, CE



Rear view of UltraMatrix 4xE, model # EE4-4X16U/E2

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