UltraMatrix X-Series

Multi-User KVM Matrix Switch

Available in three models; 4, 8, or 16 user

Multiple users can access and control up to 1,000 computers and network devices

Supports PC, Sun, Apple, USB, UNIX workstations and serial devices

Modular design and hot swappable Plug-in cards make the system versatile and easy to expand and maintain

Available with RJ45 expansion card connectors

Features and Benefits

- 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 1600 x 1280
- On-screen menu informs you of connection status with user friendly messages
- Multi-lingual menu (English, French, German, Spanish, Italian, and Portuguese)
- Status screen shows inter-box communication, connections, computer power, and other information
- VT220 color terminal emulation for accessing serial devices
- Pre-configuration feature allows installation without powering down servers
- Connect more than 16 users by adding local KVM stations at each switch
- Free firmware upgrades for product enhancements and new Software features available at www.rose.com
- Rackmount kits available in 19", 23", and 24
- Made in USA

The UltraMatrix™ Advantage . . .

The UltraMatrix series products offer the latest in KVM switch technology. Rose's enterprise KVM switch has the ability to connect multiple users to as many as 1,000 computers. These computers can be a mix of PC's, UNIX systems, Apple/Mac, SUN, and several supported serial devices like routers, Ethernet switches, and UNIX. If you need a VT220 terminal emulator to connect to a serial device, the UltraMatrix can even perform as a VT220 color terminal.

The UltraMatrix reduces clutter, saves physical space, and reduces equipment and power costs. Use the on-screen menu to configure the unit, name computers, select computers, and show computer connections.

Units connect together with a bus connection 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.
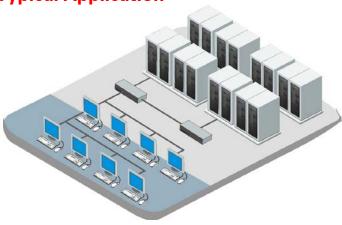
The UltraMatrix provides serial support to access computers, routers, Ethernet hubs, UNIX devices and more. It can perform as a "VT220" color terminal emulator with an eight-page scroll buffer. Local monitor connection, security, flash memory, system status, and a long list of other features ensure the UltraMatrix will streamline your data center or server room. Call us for more information on this and other excellent Rose products,

UltraMatrix on-screen menu

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Typical Application

UltraMatrix Models   The UltraMatrix UM4 and UM8 models are based on a five-card chassis which accepts up to four computer/user cards and one expansion card. The UM16 model uses four computer/user cards and two expansion cards. The UltraMatrix comes ready-to-go with the cards installed according to your order. The maximum you can populate one chassis is sixteen computers and four users. You can connect the units together to add more computers and users. The chassis is versatile for expanding as your system grows. It makes maintenance and service easy and supports future hardware.

Cables   Rose's UltraCable streamlines the cable connections to UltraMatrix, simplifying cable management and improving system reliability. Computer or user cables are ordered by the connector type needed and desired length. Expansion cables are ordered by length and are usually connected in a bus. You need one cable for every two global user stations.

Installation   The UltraMatrix is easy to install. You simply connect your computers, keyboards, monitors, and mice to the UltraMatrix ports using UltraCables. Configure each switch by access the on-screen menu, configure settings such as computer names and security, and save it in flash memory.

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 or 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 On-screen display 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 at the serial data link of another computer.

Serial devices   The on-screen display of the UltraMatrix is so powerful that it can be configured to be a color VT220 terminal for accessing serial devices.

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 by 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.

On-screen-menu   The UltraMatrix excels with it's on-screen menu technology. The interface uses pop-up boxes to make selections. Help line is 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 on-screen menu to connect to computers by name, see connection status, and observe system status in real time.

Part Numbers

Model	# Users	# Computers
UM4-0X8U/E	0	8
UM4-0X16U/E	0	16
UM4-1X8U	1	8
UM4-1X16U	1	16
UM4-4X16U	4	16
UM8-0X16U/E	0	16
UM8-1X16U	1	16
UM8-2X8U	2	8
UM8-4X16U	4	16
UM16-0X16U/E2	0	16
UM16-1X16U	1	16
UM16-2X8U	2	8
UM16-4X16U	4	16

/E or /E2 part number suffix = expansion card installed
/ERJ or /E2RJ part number suffix = RJ45 expansion card installed
0 user models are generally used in an expanded system
UM16 models require two expansion cards
RM-UM4/nn   (4x/8X) Rackmount kit, nn=19", 23", or 24"
RM-UM16/nn   (16X) Rackmount kit, nn=19", 23", or 24"

Specifications

Dimensions	(UM4 & UM8 – 3RU) 16.7"W x 7.0"D x 5.25"H (UM4 & UM8 – 3RU) 42.4 x 17.8 x 13.3 cm (UM16 – 4RU) – 16.7"W x 7.0"D x 7.0"H (UM16 – 4RU) 42.4 x 17.8 x 17.8 cm
Weight	(UM4 & UM8) – 14 lb. (6.4kg) fully populated (UM16) – 17 lb. (7.7kg) fully populated
Power	Auto-switching 90 – 240 VAC, 45 – 60 watts
Video bandwidth	UM4 = 100MHz, UM8, UM16 = 250MHz
Video sync	HV, composite. Sync-on-green
Environmental	0 – 45° C, 5% – 80% non-cond. relative humidity
Connectors	Power: IEC 320 standard receptacle CPU/KVM: DB25F Expansion: UM4=DB15M/F, UM8/16=HD15M/F RS232 serial: RJ45 6 conductor
Chassis	Electro galvanized steel, black powder coated
Approvals	UL, cUL, TUV, CE

Rear View UM4-4X16U/E   UM16-4X16U/E2   UM8-4X16U/E

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