

UltraMatrix 2xE



2 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 1600 x 1280
- 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 2 users by adding local KVM stations at each switch
- Flash memory with free lifetime upgrade of firmware keeps compatibility with latest devices

The UltraMatrix 2xE™ Advantage...

UltraMatrix 2xE™ offers the latest in KVM matrix switch technology, at an affordable price. The 2xE allows you to connect two or more keyboards, monitors, and mice to four, eight, or sixteen computers per chassis, expandable to as many as 1,000 computers.

UltraMatrix 2xE comes in several sizes: 2x4, 2x8, 2x16, 1x8, and 1x16 in either PC or multi-platform. The UltraMatrix 2xE 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 matrix 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 2xE switches are available in several models. They have fixed port configurations and plug-in expansion cards. The 2x4, 2x8, and 2x16 units connect 2 users with 4, 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 2xE switches are connected together so two 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 one cable 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 cable. 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	*****	2	017	PC	3	David	Share mode
9-12	*****	3	017	PC	14	Sharon	Share mode
13-16	*****	4	017	8mb			Not logged in
17-20	*****	2	017	PC	12	User 5	Share mode
21-24	*****	2	017	PC	143	Sam	Share mode
25-28	*****	2	017	PC	15	Paul	Share mode
29-32	*****	2	017	PC	12	Clara	Share mode
33-36	*****	2	017	PC			Not logged in
37-40	*****	2	017	PC	14	Temp	Share mode
41-44	*****	2	017	PC	128	Markus	Share mode
45-48	*****	4	017	PC			Not logged in
49-52	*****	1	017	PC			Timed out
53-56	*****	2	017	PC			Callus state
57-60	*****	2	017	PC	399	Godilla	Share mode
61-64	*****	4	017	PC			User request

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

- EP2-2X4U PC 2xE switch for 2 users and 4 computers
- EP2-2X8U PC 2xE switch for 2 users and 8 computers
- EP2-2X16U PC 2xE switch for 2 users and 16 computers
- EE2-2X4U Multi-platform 2xE switch for 2 users and 4 computers
- EE2-2X8U Multi-platform 2xE switch for 2 users and 8 computers
- EE2-2X16U Multi-platform 2xE switch for 2 users and 16 computers

Following models are usually used as expansion units

- EP2-1X8U PC 2xE switch for 1 user and 8 computers
- EP2-1X16U PC 2xE switch for 1 user and 16 computers
- EE2-1X8U Multi-platform 2xE switch for 1 user and 8 computers
- EE2-1X16U Multi-platform 2xE switch for 1 user and 16 computers
- UMX-EXP2 Plug-in card for expansion, add /E to part number above when pre-installed
- RM-UBnn 4/8 port rack mount kit, n= 19", 23", or 24"
- RM-UCnn 16 port rack mount kit, n= 19", 23", or 24"

Specifications

- Dimensions 4/8 port: 16.7" W x 4.85" D x 1.75" H (1 RU)
42.4 x 12.3 x 4.4 cm.
- Dimensions 16 port: 16.7" W x 4.85" D x 3.50" H (2 RU)
42.4 x 12.3 x 8.9 cm.
- Weight 4/8 ports: 4 lb. (1.8 kg.) 16 port: 8 lb. (3.6 kg.)
- Power Auto Switching, 90 - 240 VAC, 60 watts
- Connectors Power: IEC 320 standard receptacle
CPU/KVM connector: DB25 female
Expansion: DB15 male/female
RS232: RJ45 6 conductor
- Video bandwidth 1x4 / 1x8 / 2x8: 250 Mhz 1x16 / 2x16: 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 2xE, model # EE2-2X8U/E

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