

VISTA MINI KVM INSTALLATION AND OPERATIONS MANUAL

ROSE.COM



LIMITED WARRANTY

Rose Electronics warrants the Vista Mini to be in good working order for one year from the date of purchase from Rose Electronics or an authorized dealer. Should this product fail to be in good working order at any time during this one year warranty period, Rose Electronics will, at its option, repair or replace the Unit as set forth below. Repair parts and replacement units will be either reconditioned or new. All replaced parts become the property of Rose Electronics. This limited warranty does not include service to repair damage to the Unit resulting from accident, disaster, abuse, or unauthorized modification of the Unit, including static discharge and power surges.

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NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO-FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses and can radiate radio frequency energy and if not installed and used properly, that is in strict accordance with the manufacturer's instructions may cause interference to radio communication. It has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

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Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.



CERTIFICATE OF CONFORMITY

EMC Emissions:

- EN 55022:1998 Class B ITE emissions requirements (EU)
- FCC 47 CFR part 15 Class B emissions requirements (USA)
- VCCI Class B ITE emissions requirements (Japan)
- AS/NZS 3548:1995/CISPR22 Class B ITE emissions requirements (Australia)
- EN61000-3-2:1995 Limits for Harmonic Current Emissions (Equipment Input Current \leq 16A Per Phase)
- EN61000-3-3:1995 Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply System for Equipment with Rated Current \leq 16A

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INTRODUCTION

Introduction

Thank you for choosing the Rose Electronics® Vista™ Mini KVM switch. The Vista Mini switch is the result of Rose Electronics commitment to providing state-of-the-art switching solutions for today's demanding work place. The Vista Mini switch has proven to be a valuable investment for users that have a need to access two computers from a single KVM station.

A **K**eyboard, **V**ideo monitor and **M**ouse are referred to throughout this manual as a **KVM** station.

Please refer to the safety section first before proceeding with any installation or configuration of the Vista Mini switch.

The Vista Mini switch is available in two models The 2-port model is available with DB25 connectors or PC connectors.

For the Vista Mini models with DB25 connectors, it is recommended that Rose Electronics cable part number CAB-ZX0606CA nnn or CAB-CX0606CA nnn (DB25 to HD15/PS2/PS2) CPU Cable be used.

For the models with PC connectors, it is recommended that Rose Electronics cable part number CAB-CXV66MM nnn or CAB-WX66MM nnn (VGA/PS/2 keyboard/PS/2 mouse cable) be used.

The Vista Mini switch can simplify your job by helping you organize your computer applications. Because the Vista Mini switch lets you use a single keyboard, video monitor, and mouse to access two computers, you can reduce your equipment overhead and end keyboard and monitor clutter. It is the perfect addition for home or small business applications.

Features

- Video resolution up to 1600 x 1280
- Available with DB25 or PC (keyboard, video monitor, mouse) CPU connectors.
- Access 2 computers from one KVM station.
- Select a computer from the front panel or simple keyboard commands.
- Power is obtained from the attached CPUs, eliminating the need for an external power source.
- Front panel LEDs show computer, keyboard, and mouse status.
- Keyboard, video monitor, and mouse plug directly into the PC model.
- Scan mode automatically sequences through CPUs at adjustable rate.
- Non-volatile memory stores configuration settings.
- Full emulation of keyboard and mouse, allowing computers to be booted at any time.
- Supports PS/2 mouse or wheel mouse.
- Keyboard Num Lock, Caps Lock, and Scroll Lock states automatically saved and restored when switching among CPUs.
- Keyboard mode is automatically detected for simultaneous support of PCs, Unix computers, and IBM computers.
- Reset button reinitializes all ports.
- Low cost and easy to use.
- Heavy-duty steel, fully shielded chassis.
- Saves space, reduces equipment and power costs, and eliminates clutter.
- One-year warranty and unlimited technical support.
- Made in USA.

Compatibility

CPUs	
Computers	Industry standard PCs, Unix computers such as RS-6000, HP 9000, SGI, DEC Alpha, and others.
Monitors	SVGA
Keyboards	US, Korean, Japanese, keyboards with or without Windows keys (101, 102, 104, 105, 106, 109 keys) (Some older XT/AT auto-sensing keyboards may not be compatible).
Mouse	Standard PS/2 Mouse (2 or 3 button) PS/2 Wheel Mouse (2 button + wheel)
KVM Station	
Monitors	SVGA
Keyboards	US, Korean, Japanese, keyboards with or without Windows keys (101, 102, 104, 105, 106, 109 keys) (Some older XT/AT auto-sensing keyboards may not be compatible).
Mouse	Standard PS/2 Mouse (2 or 3 button) PS/2 Wheel Mouse (2 button wheel)

Table 1. Compatibility

Package contents

The package contents consists of the following:

- The Vista Mini Unit.
- Installation and operations manual or CD.

CPU cables are usually ordered separately. If the package contents are not correct, contact Rose Electronics or your reseller so the problem can be quickly resolved.

System overview

The Vista Mini switch is designed to provide seamless, trouble-free switching from a single KVM station to any connected CPU. You can switch to the connected computers by simple keyboard commands or using the front panel buttons.

Figure 1 shows a typical configuration using the Vista Mini switch with DB25 connectors. Two CPUs can be connected to the Vista Mini switch and accessed from a single KVM station.

KVM station

A KVM station, consisting of a keyboard, video monitor and mouse, connects directly to the Vista Mini switches' KVM connectors. The KVM station can switch its keyboard, video monitor and mouse to any of the connected CPUs and fully control that CPU. Files and folders can be managed, applications can be executed, upgrades can be performed and general maintenance done from the KVM station.

The keyboard, video monitor and mouse used for the KVM station should be compatible with the computers that will be connected. The KVM stations mouse must be a PS/2 mouse. It cannot be a serial mouse. The KVM connectors on the Vista Mini switch are HD-15F for the video monitor and MiniDin-6F for the keyboard and mouse.

CPU connections

The CPU connectors on the Vista Mini switch depend on the model ordered. The “U” model connectors are DB25F for each CPU. The “PC” model connectors are HD15F (video) , MiniDin-6F (keyboard and mouse) for each CPU and 3.5mm stereo audio port.

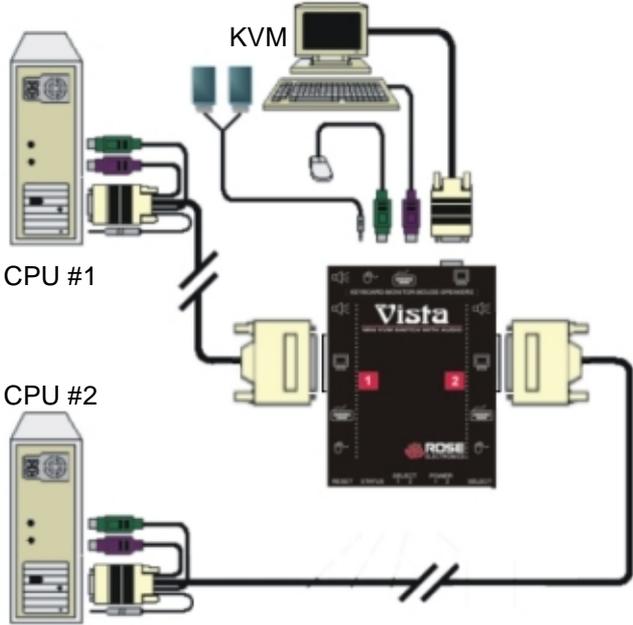


Figure 1. Typical installation

Rose Electronics web site

Visit our web site at www.rose.com for additional information on the Vista Mini and other products offered by Rose Electronics that are designed for server room and data center applications, classroom environments and many other switching applications.

MODELS

Vista Mini KVT-Series models



Figure 2. Vista Mini PC model



Figure 3. Vista Mini DB25 model

Activity LED (ACT)	Lit when selected CPU has power. Flashes when Keyboard and mouse data is sent to the unit.
Power LEDs	Indicates which computers are powered on.
Select LEDs	Indicates which computer is selected.
Reset button	Resets the unit and initializes the keyboard and mouse.
CPU Select buttons (1 or 2)	Selects the computer to be accessed.
CPU Connection	PC Model - 2-HD15F/PS2-PS2 DB25 model - 2-DB25F
Video out	HD15M
Keyboard/Mouse	PS/2-MiniDIN6
Audio out	3.5 mm stereo audio port

Table 2. Description

Vista Mini cables

Vista Mini to CPU cables

For the Vista Mini models with DB25 CPU connectors, it is recommended that Rose Electronics cable part number CAB-ZX0606CA nnn or CAB-CX0606CA nnn (DB25 to HD15/PS2/PS2) CPU cable be used.



For the Vista Mini models with PC connectors, it is recommended that Rose Electronics cable part number CAB-CXV66MM nnn or CAB-ZX66MM nnn (VGA & PS/2 Male to Male cable) be used.



For attached CPUs that use a serial mouse, use adapter ACC-KVM6F9F to connect to the CPUs serial port (do not substitute).

Vista Mini to KVM station cable

The keyboard, video monitor, and mouse cables on a KVM station can connect directly to the Vista Mini switches connectors provided they are a HD15 video and PS/2 (MiniDin-6) keyboard and mouse connectors.

Installation

Installation of the Vista Mini switch consists of the following steps:

It is recommended that the CPUs be powered off.

1. Connect the KVM station to the Vista Mini switch. Keyboard, monitor, mouse, and audio cables connect directly to the corresponding ports on the Vista Mini.
2. Connect the CPUs to the Vista Mini switch. Use the appropriate CPU adapter cable with the correct connectors that match the computer's keyboard, monitor, and mouse ports.
3. Turn on the monitors and apply power to the computers. You should see the video from computer #1 on the KVM monitor.

Your Vista Mini switch is now ready for operation using the initial factory settings. Pressing the numbered buttons (1 or 2) on the front panel will switch to that computer port. To take full advantage of the Vista Mini features, refer to the operating instructions for detailed information about each of the Vista Mini commands. The keyboard commands are summarized in Table 3.

To begin switching immediately from the keyboard, press and release the left control <Ctrl> key, then type in the computer number (1 or 2). The video from the connected computer will display on the KVM's video monitor and you have complete keyboard and mouse control on that computer.

Operating instructions

The Vista Mini switch is very easy to operate. Computer selection and set-up functions are entered from the keyboard. You can also select computers manually from the Vista Mini's front panel by using buttons 1 or 2

Keyboard command

Following is a description of the Vista Mini keyboard command functions.

The <Ctrl> input is a press and release of the left control key. Within 2 seconds of pressing and releasing the left <Ctrl> key, enter the next command.

Command	Key Sequence	Description
Computer Select	<Ctrl> x (x = 1 or 2)	Connects your keyboard, video monitor, and mouse to the selected computer.
Connect to next computer	<Ctrl> + (Plus)	Selects the next sequential computer.
Connect to previous computer	<Ctrl> - (Minus)	Selects the previous sequential computer.
Scan (On)	<Ctrl> S	Turns scan mode on, causing the Vista Mini to start scanning from the current port to the next port and start again..
Scan (Off)	<Ctrl> X	Turns scan mode off.
Scan time interval	<Ctrl> Txx <Enter> (xx = 1 – 15 sec.)	Sets the pause time for each port when scanning.
Reset command	<Ctrl> R	Resets and enables mouse and keyboard, enables PS/2 mouse on currently selected port.
Reset mouse command	<Ctrl> O	Sends reset mouse command to currently selected CPU. Will recover stuck NT mouse.
Send null byte	<Ctrl> N	Re-synchronize PS/2 mouse

Keyboard Commands (continued)

Command	Key Sequence	Description
Identify ROM version	<Ctrl> I	Identifies ROM version, CPU must be at a command prompt, word processor, or text editor to receive value.
Keep	<Ctrl> K	Saves current scan state and custom settings.
Mode command	<Ctrl> M x <Enter> Where: x = 1 for mode 1 x = 2 for mode 2 x = 3 for mode 3	First select the CPU port to configure, and then enter the mode command. Mode 1, 2, 3 for keyboard:
Mouse type	<Ctrl> Q x <Enter> Where: x = 0 for PS/2 mouse x = 1 for Serial mouse x = 2 for Wheel mouse	First select the CPU port, and then enter the type command
Typematic value	Factory setting = 43 Rate = 10.9 chars/sec Delay = 500 millisec.	See Attachment F.

Table 3. Keyboard commands

Follow each set-up command with the “Keep” command to save the changes.
“Keep” command = press and release the left <Ctrl> key, then the “K” key.

Use only the numeric keys above the keyboard. The keypad will not work. All keyboard commands must be entered within 2 seconds of pressing and releasing the left <Ctrl> key.

Keyboard command description

Computer select

To select a computer from your keyboard, press and release the left <Ctrl> key and then type in the computer number (1 or 2).

Next computer

To switch to the “Next computer”, press and release the left <Ctrl> key, then press the plus/equal key.

Previous computer

To switch to the “Previous computer”, press and release the left <Ctrl> key then press the minus/underscore key.

Scan mode (On)

To enable the “Scan mode”, press and release the left <Ctrl> key, then type S. The Vista Mini switch will begin scanning sequentially from its current computer to the next one and then begin again.

Scan mode (Off)

To stop the “Scan mode”, press and release the left <Ctrl> key and then type “X”. Issuing a computer select command also turns off scanning.

Scan time interval

The “Scan Time interval” command sets the time, in seconds that the Vista Mini switch will pause at each of the computers when scanning. The default setting is 5 seconds. To change the Scan Time to another interval press and release the left <Ctrl> key, type “T” then enter the new scan time interval (1-16 seconds), and press <Enter>.

Reset

To “Reset” the mouse and keyboard, press and release the left <Ctrl> key, then type “R”. This command is used to reset the mouse and keyboard on the currently selected Vista Mini port without removing power from the Vista Mini switch. This is most useful to reset a PS/2 mouse that has been unplugged and plugged back in. Upon issuing this command, all keyboard LEDs will go on and then return to their previous state.

Reset computer mouse type (NT and WIN 2K systems only)

DO NOT issue this command on non-NT or Win 2K based computers.

Press and release the left <Ctrl> key, then type “O”. This command sends a reset mouse command to the currently selected NT or Win 2K computer. The command is used to recover a stuck mouse on an NT or Win 2K system.

Send null byte

Press and release the left <Ctrl> key, then type "N". This command is used to re-synchronize an out-of-sync PS/2 mouse. The command may need to be entered once or twice, depending if the mouse is out-of-sync by one or two bytes.

Identify ROM version

Press and release the left <Ctrl> key, then type "I". This command is used to identify the revision level of the Vista Mini firmware currently installed. Before entering this command, the selected CPU must be at a command prompt, word processor, or text editor, so when the Vista Mini switch sends the ROM revision level the result can be displayed.

Keep command

Press and release the left <Ctrl> key, then type "K". The Keep command saves all settings.

Mode command

The Vista Mini switch supports keyboard modes 1, 2 and 3 To issue the "Mode" command, press and release the left <Ctrl> key, type "M", then enter the mode number (1,2 or3) followed by <Enter>.

Mode 1 - CPU Keyboard = PC Mode 1 (Some IBM's & PS/1's)

Mode 2 - CPU Keyboard = PC Mode 2 (Most PCs)

Mode 3 - CPU Keyboard = Most (RISC) Unix Workstations & Rose
Translator

Typematic command

Initial factory setting = 43. Rate = 10.9 chars/sec, Delay = 500 millisec.
See Attachment F for typematic value calculations.

Mouse type

To issue the "Mouse type" command press and release the left <Ctrl> key, type "Q", enter mouse type (0,1,2), and press <Enter>.

Mouse type 0 = PS/2 mouse

Mouse type 1 = Serial mouse

Mouse type 2 = Wheel mouse

TroubleShooting

CPU does not boot, keyboard or mouse error received

- Cable is loose, reseal cable and hit F1 to continue or reboot computer.
- Wrong cable plugged in, keyboard and mouse cables reversed.
- Cable is defective; try using a cable from another CPU. If the problem goes away cable is defective.
- Port on the Vista Mini switch is defective; try using another port. If the problem goes away port is defective.
- Port on CPU is defective, try plugging in keyboard or mouse directly. If the problem remains, the CPU port is defective. If the activity LED is not lit when switched to computer, which is powered on, the fuse on the computer's motherboard may be blown.

Mouse driver does not load

- If using a PS/2 type mouse, the CPU must be connected to the Vista Mini or mouse at boot-up time in order for mouse to be recognized by CPU. Reboot the computer with the Vista Mini powered on and cable attached.
- If using a serial type mouse make sure the right COM port is being used and the syntax of mouse driver is correct.
- Incompatible or old mouse driver being used, update the driver.
- Mouse translation is set incorrectly.

Can't switch ports from keyboard.

- You must press and release the left control key before you press the key that specifies the port number. You must also use the numeric keys above the alphabetic keys, not those on the numeric keypad.

Wrong or missing characters from those typed

- The mode of the keyboard does not match that of the CPU. Issue the mode command, usually 1 for IBM PS/1, 2 for most other PS/2 PCs, and 3 for Unix computers. The default setting of the Vista Mini is mode 2. An incorrect mode can confuse the CPU or keyboard and require re-booting the CPU or resetting the keyboard by unplugging and plugging it back in.

PS/2 mouse gets out of sync

- Cabling was disturbed during mouse movement. Issue the null command once or twice to re-sync the mouse. Update to the latest mouse driver.

Video fuzzy

- Cable too long or wrong type. Use coax cable for high resolution.

Mouse does not move

- The Vista Mini is turned off after or not connected when CPU was booted or the application using the mouse was run. Exit and re-enter application or operating system using mouse or issue reset command.
- PS/2 mouse was not connected when the Vista Mini was powered up or the mouse was disconnected and reconnected. Issue the reset command.
- Mouse translation set incorrectly.

Video not synchronized or wrong color

- The cable may be loose, reseal cable.
- Wrong CPU cable used. If you have a 9515, 9517, 9518, XGA mono or similar monitor you must use special cables or adapters.
- Cable is defective; try using cable from another CPU if problem goes away cable is defective.
- Port on the Vista Mini is defective; try using another port on the Vista Mini. If problem goes away port is defective.

Cannot remember the configuration or access password.

- Call Rose Electronics Technical Support for instructions.

Maintenance and repair

This unit does not contain any internal user-serviceable parts. In the event a unit needs repair or maintenance, you must first obtain a Return Authorization (RA) number from Rose Electronics or an authorized repair center. This Return Authorization number must appear on the outside of the shipping container. See Limited Warranty for more information.

When returning a Unit, it should be double-packed in the original container or equivalent, insured and shipped to:

Rose Electronics
Attn: RA _____
10707 Stancliff Road
Houston, Texas 77099 USA

Technical support

If you are experiencing problems, or need assistance in setting up, configuring or operating your switch, consult the appropriate sections of this manual. If, however, you require additional information or assistance, please contact the Rose Electronics Technical Support Department at:

Phone: (281) 933-7673
E-Mail: TechSupport@rose.com
Web: www.rose.com

Technical Support hours are from: 8:00 am to 6:00 pm CST (USA), Monday through Friday.

Please report any malfunctions in the operation of this unit or any discrepancies in this manual to the Rose Electronics Technical Support Department.

Safety

This Vista Mini switch has been tested for conformance to safety regulations and requirements, and has been certified for international use. Like all electronic equipment, the Vista Mini switch should be used with care. To protect yourself from possible injury and to minimize the risk of damage to this Unit, read and follow these safety instructions.

- Follow all instructions and warnings marked on this Unit.
- Do not attempt to service this Unit yourself.
- Do not use this Unit near water.
- Assure that the placement of this Unit is on a stable surface or rack mounted.
- Provide proper ventilation and air circulation.
- Keep the power cord and the connection cables clear of obstructions that might cause damage to them.
- Use only the power cords, power transformer and connection cables designed for this Unit.
- Use only a grounded (three-wire) electrical outlet.
- Use only the power adapter designed for the Vista Mini Switch.
- Keep objects that might damage this Unit and liquids that may spill, clear from this Unit. Liquids and foreign objects might come in contact with voltage points that could create a risk of fire or electrical shock.
- Operate this unit only when the cover is in place.
- Do not use liquid or aerosol cleaners to clean this Unit. Always unplug this Unit from its electrical outlet before cleaning.
- Unplug this Unit from the electrical outlet and refer servicing to a qualified service center if any of the following conditions occur:
 - The power cord or connection cables is damaged or frayed.
 - The Unit has been exposed to any liquids.
 - The Unit does not operate normally when all operating instructions have been followed.
 - The Unit has been dropped or the case has been damaged.
 - The Unit exhibits a distinct change in performance, indicating a need for service.

Safety Information



Documentation reference symbol. If the product is marked with this symbol, refer to the product documentation to get more information about the product.

WARNING A WARNING in the manual denotes a hazard that can cause injury or death.

CAUTION A CAUTION in the manual denotes a hazard that can damage equipment.

Do not proceed beyond a WARNING or CAUTION notice until you have understood the hazardous conditions and have taken appropriate steps.

Grounding

These are Safety Class I products and have protective earthing terminals. There must be an un-interruptible safety earth ground from the main power source to the product's input wiring terminals, power cord, or supplied power cord set. Whenever it is likely that the protection has been impaired, disconnect the power cord until the ground has been restored.

Servicing

There are no user-serviceable parts inside these products. Only service-trained personnel may perform any servicing, maintenance, or repair. The user may adjust only items mentioned in this manual.

Appendix A. Initial factory settings

Setting	Default Value
Scan enable	Off
Scan Time Interval	5 seconds
Caps/Num lock/Scroll lock	Numlock On
PC keyboard Mode	2
Typematic Value	43 Rate=10.9 chars/sec Delay = 500 millisc.)
Mouse translation	0 (PS/2 mouse output)

Appendix B. Parts and cables

CPU Adapter Cables for Models with DB25 Connectors	
Part Number	Description
CAB-ZX0606CA nnn^*	VGA-PS/2 keyboard/mouse/audio to DB25M
CAB-CX0606CA nnn^{**}	Coax VGA-PS/2 keyboard/mouse/audio to DB25M
CPU Adapter Cables for Models with PC Connectors	
CAB-CXV66MM nnn^{**}	VGA-PS/2 keyboard/mouse male to male
CAB-ZXV66MM nnn^{**}	VGA-PS/2 keyboard/mouse male to male
ACC-6F5M	MiniDin-6 female to din-5 male adapter
ACC-KVM6F9F	MiniDin-6 female to DB9 female adapter
CAB-SPMM nnn	3.5mm audio (Computer to Vista Mini)
CAB-SPMF	3.5 mm audio (Vista Mini to speakers)

*Available in standard lengths of 5, 10, and 20 feet
Replace nnn with desired length.

**Available in lengths of 5, 10, 20, 35, 50, 75, and 100 feet.
Replace nnn with desired length.

Appendix C. General specifications

Size	3.2" W x 0.8" H x 4.2" D
Weight	1 lb.
Environment	0 to 55°C., 0% to 80% non-condensing relative humidity
Input Power	Supplied by computers
CPU Connectors	KVT-2U DB25 Female KVT-2PC HD15F/MD6F/MD6F/audio
Video Connector	HD15F VGA video
Keyboard Connector	MD6F
PS/2 Mouse Connector	MD6F
Chassis	Fully shielded, black painted steel
Controls	Reset button Computer select buttons: Buttons 1 or 2
Indicators	Status LED Power LEDs: 1-2 Computer select LEDs: 1-2

Appendix F. Typematic rate

Typematic Command

Press the left <Ctrl> key, type "A", enter the typematic value (1-3 digit) followed by <Enter>.

The typematic value is determined from the following tables using the equation: Typematic Value = Rate value + Delay Value. Pick the desired rate in keys/sec. and the delay in milliseconds from tables below. Add the Rate Value and the Delay Value. The sum of these values is the typematic value to enter.

For example to use a Rate of 16.0 keys/sec. and a 500 millisecond delay, the Rate value = 7 and the Delay value = 32. Add 7 + 32 = 39. To set a typematic value of 16, press the left <Ctrl> key, type "A", enter 39, and then press Enter.

Typematic Rate							
Rate Keys/sec	Rate Value	Rate keys/sec	Rate Value	Rate Keys/sec	Rate Value	Rate Keys/sec	Rate Value
30.0	0	15.0	8	7.5	16	3.7	24
26.7	1	13.3	9	6.7	17	3.3	25
24.0	2	12.0	10	6.0	18	3.0	26
21.8	3	10.9	11	5.5	19	2.7	27
20.0	4	10.0	12	5.0	20	2.5	29
18.5	5	9.2	13	4.6	21	2.3	28
17.1	6	8.6	14	4.3	22	2.1	30
16.0	7	8.0	15	4.0	23	2.0	31
Typematic Delay							
Delay*	Delay Value	Delay*	Delay Value	Delay*	Delay Value	Delay*	Delay Value
250	0	500	32	750	64	1000	96

* Delay in milliseconds



Server Management



Solutions

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