



# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

BLACK BOX Deutschland GmbH · Ludwigstrasse 45B · 85399 Hallbergmoos · www.black-box.de  
FREE TECH SUPPORT · Tel: 0811 / 5541-110 oder -0 · Fax: 0811 / 5541-499 · techsupp@black-box.de



## *ServSwitch UltraRemote*



KVM access via  
ethernet or modem

- Easy to configure
- Compatible with all BLACK BOX switches
- 1U high chassis
- Up to 1280x1024 resolution



**Access your servers anywhere in the world from the *ServSwitch UltraRemote* client application program**

### Features and Benefits

- Connect to remote computer over Ethernet or dial-up
- Up to 1280x1024 resolution
- Easy to install, just give it an IP address and run the remote client application
- Compatible with all BLACK BOX and most other KVM switches
- Local KVM port to access computers at UltraRemote location
- Scaling of computer image reduces amount of data sent and permits fast screen updates over slow links
- Quad screen mode allows you to see four servers from one screen
- Front panel shows power and currently connected input port either net, serial, or local KVM
- Solid-state embedded unit has no disk drive for maximum reliability
- Remote client application is simple to use, installs very easily, and requires no licensing
- Password security prevents unauthorized configuration
- Made in USA
- One-year warranty

### The *UltraRemote*<sup>™</sup> Advantage

The *UltraRemote* allows you to access your computers from anywhere in the world. Connect the unit to a BLACK BOX KVM switch and your Ethernet network. Assign an IP address to the *UltraRemote* and run the remote access client from any workstation.

You can access the server just like you were standing in front of it, but you can be at home, work, or half way around the world. Easy to configure security features, prevent unauthorized access.

The *UltraRemote* has a sophisticated scaling feature allowing you to position any size image of your server anywhere on your screen. Now you can monitor servers while you work on other tasks. It is also ideal for fast updates over slow links because less data is sent.

Because the unit is a fully embedded product with no hard drive or complicated operating system, you are ensured of the highest reliability and availability.

A maximum resolution of 1280 x 1024 is supported for access to not only PCs, but also Sun and other high resolution computers. For maximum flexibility, you can access the *UltraRemote* through its serial port for dial-up modem access. The *UltraRemote* also features a local KVM port for access directly at the unit.

## Typical Application

**Introduction** *UltraRemote* is a powerful product that extends the range of access to your computers to anywhere in the world. Its advanced design makes it compatible with most KVM switches and computers. It is most commonly used to extend a KVM switch's user port to be accessed either by a LAN, WAN, or dial-up connection.

**Installation** *UltraRemote* is easy to install. Just connect the *UltraRemote* to your standard 10/100 Ethernet network, a keyboard, monitor, and mouse, and a KVM switch or standalone computer. You can also connect a modem if you like for dial-up access. An IP address is assigned from a simple menu at the local KVM port on the *UltraRemote*. For maximum security, administrator and user passwords are configured here as well. That completes the basic *UltraRemote* installation. Now go to a PC on the network and run the *UltraRemote* remote program provided. Enter the IP address of the *UltraRemote* and hit the connect icon. You are now prompted for a password. Enter the correct password and you will be connected to the switch or standalone computer as if you were directly connected.

**Operation** The *UltraRemote* has three access points to the switch or standalone computer: Ethernet, serial, and a local KVM port. The local KVM port is an integrated switched analog port. When you connect the *UltraRemote* to a KVM switch, the integrated local KVM port allows you to have direct analog access to the switch, so you do not lose the KVM port on the switch. From the local KVM port you are able to configure the basic network and password information. All access to the attached computers are through a menu. The menu prompts you to enter the password. Once the correct password is entered, if no one else is connected you are granted access. Otherwise you are informed that another connection is in progress and you are denied access. If you use the Administrator password you can override the connection in progress for immediate connection.

**Server windowing** You can choose the size of the window that you work with. This allows you to either park a scaled image of your server in the corner of your screen or work with it at full resolution. By resizing the *UltraRemote* window you automatically communicate to the *UltraRemote* unit which then sends scaled video to fit your resized window. When using a reduced window, less data is sent improving performance and reducing network bandwidth. If you wish you can run in auto-scaled mode, 1 to 1 with scrolling, or full size.

**Security** The *UltraRemote* is designed with the highest regard for security. Passwords and keyboard data are encrypted with the latest SSL technology which is used for secure transactions on the Internet. For maximum security you can also encrypt the video stream with SSL. Passwords also have hacker protection which allows you to lock out repeated attempts to enter passwords. You can also program a timeout which automatically will disconnect the session when no keyboard or mouse activity is detected. When using the modem dial-in feature, you can request dial-back operation to further control access.

**Quad screen mode** You can view four servers at one time with the quad screen mode. This is an integrated high performance feature that is easy to setup and use. Simply select the servers that you want to be viewed and enter the quad screen mode. All servers are viewed in real time and are automatically scaled to fit their quadrant of the screen.

**Color modes and resolution** The *UltraRemote* hardware supports full 16-bit color. It can be programmed to use black and white, grey scale, color, or use progressive color rendering. The color rendering allows you to bring images in at a reduced color depth for fast updating and then color is added later. This feature is excellent for slow links or to reduce network bandwidth.

**Mouse cursors** Competing products suffer from an annoying presence of two mouse cursors and the requirement to synchronize the two cursors. The *UltraRemote* uses one mouse cursor in a very intuitive style to access the remote connection. Switching between the remote servers and the applications on your own PC is smooth and effortless.

**Video resolution** Other products would have you adjust complicated controls to get the optimum video quality. The *UltraRemote* does it all automatically. It also supports up to 1280x1024@76Hz to allow you to access the standard Sun computer resolution.

**Flash Memory** To support the latest devices and provide continuing features and support, **UltraRemote** contains flash memory. We provide free firmware upgrades. Load new firmware into the **UltraRemote** to add new features or support new equipment.

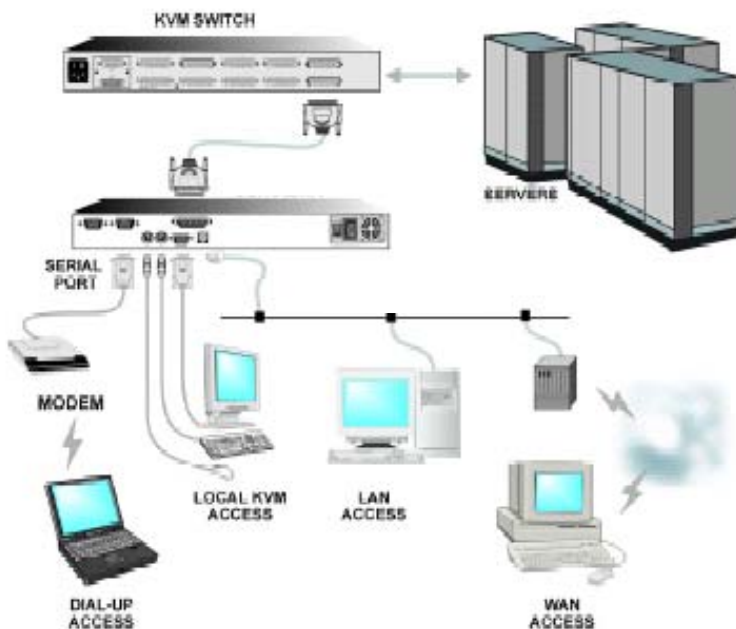
**Specifications**

Dimensions	16.7" W x 7.00" D x 1.75" H (1U) 42.4 W x 12.3 D x 4.4 cm
Weight	8 lbs. (3.6 kg)
Power	Auto Switching, 90 - 240 VAC, 100 watts
Connectors	Power: IEC 320 standard receptacle Local KVM: Video - HD15F, Keyboard - MD6F Mouse - MD6F Switch or computer : DB25 female Ethernet port: RJ45 Serial port: DB9 male
Video bandwidth	150Mhz
Chassis	Electro galvanized steel, black powder coated
Controls	Power On / Off Switch
Indicators	LEDs: Power, Net, Serial, Local, Ethernet link, 10/100MB Ethernet speed
Environmental	0°-45° C, 5%-80% non-condensing rel. humidity
Approvals	UL, cUL, TUV, CE, VCCI UltraRemote rear panel

**Ordering**

Part number: ACR9000A

**ServSwitch UltraRemote Connection Diagram**



	<p><b>BLACK BOX Deutschland GmbH</b> Ludwigstrasse 45B 85399 Hallbergmoos www.black-box.de</p>	<p><b>FREE TECH SUPPORT</b> Tel: 0811/5541-110 oder -0 Fax: 0811/5541-499 techsupp@black-box.de</p>	
-------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------