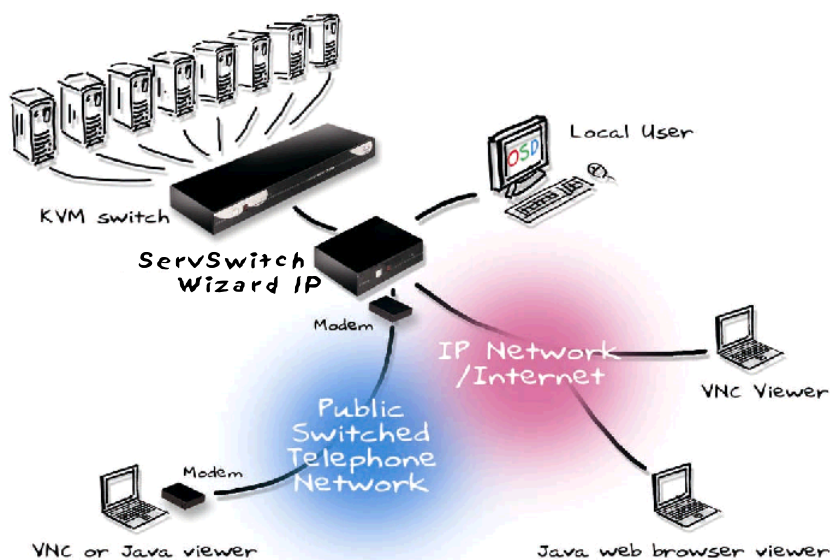# BLACK BOX®
NETWORK SERVICES

ServSwitch Wizard IP

Key Features

▶ Compatible with VNC and Java based (web browser) viewers

▶ Independent operation gives full control even during bootup or computer crash states

▶ Enterprise grade security (using AES 128 bit encryption and RSA 2048 bit public key authentication) with 16 user profiles and access data logging

▶ Doesn't require any software to be loaded onto controlled computers

▶ Automatic adaptive compression enables users to connect 'in band' via their network or 'out of band' via a dial-up link

▶ Easy On Screen Display driven set up and configuration

▶ Supports exclusive access mode or up to four simultaneous connections

▶ Feed through port provides local KVM console access

▶ Modem port and 10/100 Mb Ethernet port for dial-up and/or IP network access for 'near real time' performance

▶ Power control functions supported via dedicated serial port

▶ Time stamped activity log for enhanced security

▶ Single viewer interface

Secure Internet or dial-up access to your computers or servers for 24/7 global control.

Manage your computers from anywhere in the world with the ServSwitch Wizard IP, a powerful KVM-via-IP networking product which enables multiple computers in different locations to be controlled securely and remotely via the Internet, a dial-up link, or corporate network.

Unlike traditional remote control solutions, the ServSwitch Wizard IP doesn't need any software to be loaded on your servers and is easy to set up and use.
The IP integrates with your existing KVM infrastructure for a cost effective global IT management tool – no travelling required.

The IP is fully compatible with the hugely popular VNC (Virtual Network
Computing) standard and implements a genuine VNC server within its hardware.
Users can choose to use either VNC or Java based (web browser) viewers and don't need to purchase extra software 'seat' licences.

Specifications

Computer connection —
1 x 15-way HD female connector (blue) for computer video connection. Supports separate or combo syncs and DDC (Display Data Channel) reporting. 1 x 6-way mini-DIN connector (purple) for computer keyboard connection and 1 x 6-way mini-DIN connector (green) for computer mouse connection.

Local KVM console connection —
1 x 15-way HD female connector (blue) for connection to a monitor. 1 x 6-way mini-DIN connector (purple) for keyboard connection and 1 x 6-way mini-DIN connector (green) for mouse connection. Supports a wide range of keyboards and mice including wheel mice with extra buttons. On Screen Display driven interface enables the Wizard IP to be setup and configured.

Network port —
10/100Mb auto-sensing Ethernet port. RJ45 connector.

Serial port 1 —
9-way D-type male connector. Variable protocol with baud rates from 9600 to 115,200. Primary use is for modem connection. Supports standard dial up and ISDN modems. User definable modem configuration string. Supports IP connection via PPP protocol.

Serial port 2 —
9-way D-type male connector. Variable protocol with baud rates from 1200 to 115,200. Primary use is for the control of power switching products. May be used to control single or multi-port power switching products. User definable power switching trigger sequences.

Option switches —
2 option switches, used for flash upgrade and factory reset procedures.

USB port —
USB connector. Used for test purposes and future device support.

Rack mount options —
Screw fixings are provided on each side of the case for secure fixing of rack mount brackets. Rack mount kits are available to mount a single unit or two units side-by-side in 1U of a 19 inch rack. Rubber feet are provided for desk or shelf mounting.

Reset switch —
Unit reset switch mounted behind a small hole in the front panel. Enables the Wizard IP to be reset using a paper clip or similar.

Viewer software compatibility —
Compatible with any VNC protocol version 3 compliant viewer AT&T 3.3.3, RealVNC 3.3.4 onwards, third party software (limited security) RealVNC 4.0s (full security) Embedded Java viewer requires Java enabled browser. Supports up to four simultaneous viewer connections.

Configuration —
The Wizard IP may be configured from the local KVM console using the OSD menu or from a remote viewer. Configuration options are only available to the admin user.
Configuration options are: DHCP or specified IP, Gateway and Netmask addresses, VNC and HTTP port numbers, Shared or Exclusive access mode, Modem serial port configuration, Power serial port configuration, Keyboard layout selection, Up to 16 user accounts and passwords, Up to 32 host names and key sequences (when used with a KVM switch), Configurable unit name, Local screen saver, Remote connection idle timeout, Security settings.

In-picture menus —
The on-screen options are generated "in picture". Options are: Refresh screen, Resynchronise mouse, Video synchronisation settings, Configuration (if admin user).

Operation —
May be used in "Shared" (multiple user) or "Exclusive" (single user) modes. Local KVM console, modem and network users may access the Wizard IP simultaneously in shared mode. In shared mode there is a 2 second timeout between users.

Security —
Inherent first level security provided by dial up access option. Data stream encryption using AES cipher with a 128 bit key. VNC specific security architecture enabling mutual authentication. Public key authentication using RSA method with a key length of 2048 bits or more. Enterprise quality security architecture. Security white paper will be available. Flash upgrades secured through the use of public/private key encryption and digital signatures. Supports 16 user profiles with 16 character passwords.

Networking issues —
Connects to Ethernet networks using the TCP/IP protocol. VNC and Java ports are user definable and may share the same port. This greatly simplifies the configuration of firewalls.

Flash upgrades —
Flash upgrades may be performed from a computer connected to the network after switching the Wizard IP into a special upgrade mode.

Video modes —
Supports standard PC, Sun and Mac video modes up to resolutions of 1280 x 1024 x 75Hz. Colour captured at 24 bits per pixel resolution. Colour depth adapts to the speed of the network link from 24 bits per pixel to 3 bits per colour for slowest dialup link.

Hardware compatibility —
Supports PC, Sun (USB & 8-pin styles), Mac (USB), RS/6000, Alpha and SGI computers using PS/2 or EHN428 or EHN429 interface cables as appropriate. Supports PS/2 style keyboards and 2-button, 3-button, wheel, IntelliMouse (3 button with wheel) and IntelliMouse Explorer (5 button with wheel) style mice. Supports keyboard modes 2 and 3 and variable typematic / make / make-break key functions. WIzard IP operates with all known software and operating systems including Windows 3.X, 95, 98, ME, NT, 2000, XP; DOS; Linux, Unix, BSD; Sun OS; Mac OS; NetWare etc. Compatible with most KVM switches including all Black Box ServSwitches.

Physical design —
1 U compact case, robust metal construction, designed to be desk, shelf or rack mountable. 198 mm(w), 44mm (h), 120mm (d); 0.75kg

▼ *Ordering information*

ITEM	CODE
ServSwitch Wizard IP ACR2004A
19" Rackmountkit for 1 unit RMK2004
19" Rackmountkit for 2 units RMK2004-2

▼ Black Box Network Services - The world's largest network services company

We are, with 25 years of experience, the world leader in network infrastructure services.

On the Phone — no charge, answer calls in less than 20 seconds, find the right product with our technical experts.

On-site — superior design and engineering, Certified installations, end-to-end service.

On-line — receive technical knowledge on-line, including technology overviews, Black Box Explains and the Knowledge Box.

Most comprehensive TECHNICAL SUPPORT — our best Product! Free hotline TECH SUPPORT!

The world's best customer service — Custom design services and products, the best warranties, money-saving discount programs.

BLACK BOX exclusives — Certification Plus. Guaranteed-for-life products and services.