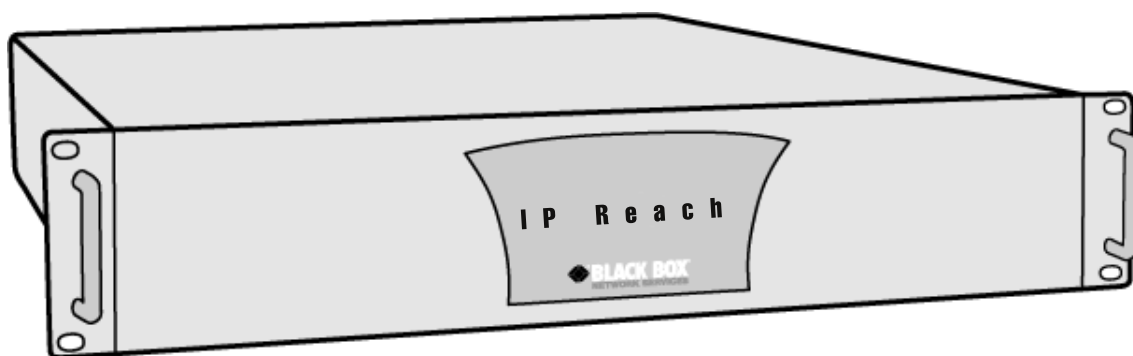


# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### ServSwitch IP Reach

### ServSwitch IP Reach-M



#### Key Features

- ▶ KVM access over Web browser
- ▶ Up to four ports for access to KVM switches or servers
- ▶ Remote KVM access via Internet, LAN/WAN, or dial-up modem
- ▶ Remote serial console access
- ▶ Remote administration
- ▶ DHCP or fixed IP addressing
- ▶ Connect up to four user consoles for direct analog KVM access
- ▶ Access servers even when the network is unavailable
- ▶ High-performance mouse tracking and synchronization
- ▶ Automatic video resolution sensing optimizes display quality
- ▶ Redundant power supplies and fail-over Ethernet (TR-Series)
- ▶ SNMP enabled
- ▶ Keyboard macro mapping
- ▶ Firmware upgradeable over network
- ▶ SSL 128-bit RSA public key, 128-bit private key encryption
- ▶ User event logging
- ▶ Private security key and IP filtering

#### Secure multi-user access and control via Web browser

IP-Reach is the fastest, most secure way for one or more users to remotely access and manage multiple servers and other IT devices from any PC running a standard web browser—without installing proprietary software on the remote PC. IP-Reach is an ideal solution for anytime, anywhere Web browser access to servers connected to Black Box<sup>®</sup> ServSwitch Summit or Zero-Series, or to KVM switches from other vendors.

#### A high performance solution for remote BIOS-level control

IP-Reach provides multiple remote users with secure BIOS-level access to manage mission-critical servers. Using Raritan's powerful frame-grabber technology, unique Video Compression Algorithm and 128-bit SSL encryption, IP-Reach captures, digitizes, and compresses the video signal before transmitting to a remote PC. Authorized users have direct access and total control of target servers and other IT devices for maintenance, administration, running GUI applications, troubleshooting, and even rebooting.

#### Choose access via Internet, LAN/WAN, or dial-up modem

IP access to mission-critical servers through the network is easy, convenient, and secure. To ensure true "anytime" availability, IP-Reach also provides network-independent access via dial-up modem, so target servers are reachable from anywhere, even when the network is unavailable.

## Specifications

### IP Reach

**Part** — KVS820AE-1C;  
KVS820AE-2C-R2; KVS820AE-4C-R2  
**Form Factor** — 2U Rackmount chassis  
**Dimensions** — (WxDxH)  
482 x 540 x 89mm  
**Weight** — 13.4 kg  
**Power** — Redundant Power Supply  
100V-120V/0.8A or 200V-240V/0.4A  
300W: 47Hz - 63Hz  
**KVM ports** — DB25 female - for server(s) or KVM switch(es)  
KVS820AE-4C-R2: 4 ports,  
KVS820AE-2C-R2: 2 ports,  
KVS820AE-1C-R2: 1 port  
**User port** — DB25 male - for user console direct to analog access  
KVS820AE-4C-R2: 4 ports,  
KVS820AE-2C-R2: 2 ports,  
KVS820AE-1C-R2: 1 port  
**IP Reach User Licences** —  
KVS820AE-4C-R2: 10  
KVS820AE-2C-R2: 5  
KVS820AE-1C-R2: 5  
**Serial port** — DB9M (DTE)  
**IP Reach Admin Port** — PS/2 keyboard - mini-DIN 6 pin (F),  
VGA monitor - HD 15 (F)

### Remote Connection

**Network** — 10BASE-T, 100BASE-TX Ethernet  
**Modem** — 56K V.90 - RJ11 port  
**Protocols** — TCP/IP, UDP, RADIUS, SNMP, DHCP, PAP, CHAP, HTTP

### Screen Resolutions

**PC text mode** — 720x400  
**PC graphic modes** — 640x480, 800x600, 1024x768, 1152x864, 1280X1024

**Sun video modes** — 1024x768, 1152x900, 1280X1024

### Accessories (included)

**Cables** — All cables to connect to PC or BLACK BOX KVM Switch

**IP Access Software** — Remote Control Software Ver. 2.0 or access via Web browser (Internet Explorer 4.0 or higher)

### IP Reach-M

**Part** — KVS819AE-M1; KVS819AE-M2  
**Form Factor** — 1U Rackmount brackets included  
**Dimensions** — (WxDxH)  
436 x2640 x 44mm  
**Weight** — 3.82 kg (KVS819AE-M1)  
9.91 kg (KVS819AE-M2)  
**Power** — 110/220V auto-Switching; 50+60 Hz  
**KVM ports** — DB25 female - for server(s) or KVM switch(es)  
KVS819AE-M1: 1 port,  
KVS819AE-M2: 2 ports  
**User port** — PS/2 Keyboard, PS/2 Mouse, HD15 VGA Video; for user console direct analog access  
KVS819AE-M1: 1 port,  
KVS819AE-M2: 2 ports  
**IP Reach User Licences** —  
KVS820AE-4C-R2: 10  
KVS820AE-2C-R2: 5  
KVS820AE-1C-R2: 5  
**Serial port** — DB9M (DTE)  
**IP Reach Admin Port** — PS/2 keyboard; PS/2 Mouse; HD15 VGA Video

### Remote Connection

**Network** — 10/100 Ethernet (RJ45)  
**Modem** — DB9M (DTE)  
**Protocols** — TCP/IP, UDP, RADIUS, SNMP, DHCP, PAP, CHAP, HTTP

### Screen Resolutions

**PC text mode** — 720x400  
**PC graphic modes** — 640x480, 800x600, 1024x768, 1152x864, 1280X1024  
**Sun video modes** — 1024x768, 1152x900, 1280X1024

### Accessories (included)

**Cables** — All cables to connect to PC or KVM Switch

**IP Access Software** — Remote Control Software or access via Web browser

## Ordering information

### ITEM

### CODE

#### IP Reach

ServSwitch IP Reach 1 Channel, incl. 5 User Licence . . . . .KVS820AE-1C-R2  
ServSwitch IP Reach 2 Channel, incl. 5 User Licences . . . . .KVS820AE-2C-R2  
ServSwitch IP Reach 4 Channel, incl. 10 User Licences . . . .KVS820AE-4C-R2

#### IP Reach-M

ServSwitch IP Reach-M1 . . . . .KVS819AE-M1  
ServSwitch IP Reach-M2 . . . . .KVS819AE-M2

## 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.