



BLACK BOX[®]

NETWORK SERVICES

ServSwitch RAS-PutIn



Key Features

- ▶ Smallest KVM-IP Remote Access Solution of the world - up to 4 units in 1 RU
- ▶ All Data between User and ServSwitch RAS-PutIn is encrypted
- ▶ First KVM-IP Extender with Remote Power switch / Remote Reset over IPMI or internal or external Switching-Option
- ▶ No software installation needed neither on client nor on server
- ▶ All text and graphics modes up to 1280x1024 @ 60Hz
- ▶ Complete access and control of servers in any kind of operational status such as boot screen and BIOS shell
- ▶ Access via Ethernet, ISDN, Modem
- ▶ Dynamic DNS for DSL services
- ▶ Automated window sizing to the remote server desktop console resolution
- ▶ Complete Access and control via standard Web-Browser
- ▶ Highest industry level data encryption
- ▶ Innovative hardware based video compression
- ▶ Fluid Mouse movement
- ▶ Three selectable Mouse modes
- ▶ Local and remote Mouse simultaneously
- ▶ Remote Mouse only, locally suppressed
- ▶ Local Mouse only, remotely suppressed
- ▶ Up to 25 users simultaneously
- ▶ Up to 255 user profiles definable
- ▶ Local Keyboard, local Mouse switch off capability (viewing only)
- ▶ Remote reset und remote power on/off
- ▶ Via IPMI system management option
- ▶ Via internal reset/power switch option
- ▶ Via external power switch (3rd party)
- ▶ Virtual multilingual Keyboard (Soft Keyboard, PDA Support)

With ServSwitch RAS-PutIn your Remote Maintenance of Servers via common communication networks will face a new Dimension. Despite the fact that ServSwitch RAS-PutIn (up to 4 units in 1U) is the smallest "KVM to IP-Extender" in the Marketplace; in supporting IPMI based system management ServSwitch RAS-PutIn also sets a new measurement in terms of integrated power cycling and the hard reset capability. Thereby ServSwitch RAS-PutIn provides the highest level of flexibility. Independent from the system software of a server or a special client ServSwitch RAS-PutIn fits easily into existing IT-Environments and allows rapid installation. In using the LAN, ISDN, DSL or an analogue modem, for the users almost every kind of data communication is possible.

ServSwitch RAS-PutIn

The integrated KVM to IP Extender with integrated system management. The device allows highly available server control, intervention, configuration, monitoring or re-boot, regardless the geographical location of the administrator, just as being onsite. Even in case of network failure the Server can be accessed at any time out of band via

ISDN-, modem dialup or a second separate service LAN. Either for a single server or in using a large matrix KVM-Switching System for a big number of machines, using ServSwitch RAS-PutIn literally faces now bounds. The unit allows local control of Keyboard, Video and Mouse as well as multiple users remotely at the same time.

Security

The comprehensive security concept complies to nearly every possible application in remote system access. ServSwitch RAS-PutIn guards every kind of data transfer with the industries most secure encryption algorithms. A unique user certificate can be generated, established and signed at a trust centre of choice and then uploaded onto ServSwitch RAS-PutIn to efficiently prevent "Man-in the Middle"- attacks or spying. A sophisticated user management allows up to 255 individual user profiles which can be consequently fine tuned at group and single user level. Rights can be assigned, changed or taken at any time remotely. Irreversible data logging provides complete and unbroken documentation on any remote or local event.

Independence

ServSwitch RAS-PutIn neither needs complicated configuration at the server side, nor at the local client station. ServSwitch RAS-PutIn supports accelerated input devices as well as non-accelerated. It can display all common VESA plots in text and graphic mode up to a resolution of 1280 x 1024 @ 60Hz. ServSwitch RAS-PutIn operates completely server OS independent and does "not eat" CPU time at all. At the client side is just a JAVA enabled standard Web-browser needed to fully control and access remote servers.

ServSwitch RAS-PutIn Options

ServSwitch RAS-PutIn 19 " Rack Mount Kit

Item number: KVS182-RMK
The ServSwitch RAS-PutIn consumes 1/4 of a rack unit size. The rack mount kit may be used to rack mount up to four ServSwitch RAS-PutIn units in 1 U of rack space. Each unit is a fully independent system.

Scope of Delivery:

- rack mount shelf
- 2 screws to mount the shelf to the chassis
- 16 screws to mount up to four ServSwitch RAS-PutIn to the shelf

ServSwitch RAS-PutIn IPMI Option

Item number: KVS182-IPMI
The ServSwitch RAS-PutIn IPMI management cable connects ServSwitch RAS-PutIn to the IPMI compliant serial ICMP management port available on all modern server systems. Sub D 9 ICMP ports are supported among others by Intel or HP. Alternae you may use the ServSwitch RAS-PutIn internal Reset/Power Option (Item number: KVS182C-IRPO).

ServSwitch RAS-PutIn internal reset/power option

Item number: KVS182-IRPO
The internal reset/power option consists of a bracket which enabled to access internal reset and ATX power switching signals to an external device. Using the internal reset/power options users are capable to perform hard reset and turn off/turn on the system without using a external power switch box.

Scope of Delivery:

- Bracket
- internal reset/power cable
- serial cable to connect bracket to ServSwitch RAS-PutIn
- Installation manual

Specifications

Size and Weight

Dimensions —
(WxHxD) 105 x 223 x 44mm
Weight — 700g

Environmental

Operating Temperature — 0°C to 40°C

Storage Temperature — -18°C to 70°C

Operating Humidity — 10% to 90% (non condensing)

Storage humidity — 5% to 95% (non condensing)

Connectors/LED's

Rear Side Connectors —

- 1 x DB9 for Terminal
- 1 x DB9 for Power Switch
- 1 x DB25 for KVM Input
- 1 x RJ45 for ISDN (Euro ISDN (Europe Version only) 2 * 64 kbit/s)
- 1 x RJ45 for LAN (Ethernet 10/100 Mbps auto sensing)
- 1 x Connection for 12V external Power Supply

Front Side Connectors —

- 1 x local Mouse Mini Din 6-p
- 1 x local Keyboard Mini Din 6-p
- 1 x local Video Interface HD15

Front Side LED's —

- 1 x LAN half/full duplex
- 1 x ISDN ready
- 1 x GRAB
- 1 x Reset
- 1 x VGA
- 1 x RUN
- 1 x LAN 100/10Mbps

Power

External Power Supply —

100 – 240V
50Hz – 60Hz, 30,1 – 40,1VA
12VDC 1 A

Divers

Embedded PowerPC 405,32 MB RAM, 4 MB ROM
Max. Resolution@Refresh Rate - 1280 x 1024 @ 60 Hz
JavaVM at Client, Version 1.2, 1.3 or 1.4

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.

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Ordering information

ITEM

CODE

ServSwitch RAS-PutIn	KVS182A
Rack Mount Kit for KVS182A	KVS182-RMK
IPMI-Option (cable)	KVS182-IPMI
Reset/Power Option	KVS182C-IRPO