



# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### eRIC PCI-Karte



#### Key Features

- ▶ Native Graphical Remote Console
- ▶ Access to OS graphics and text screen
- ▶ Access to hardware boot screen
- ▶ Access to CMOS setup Remote Mouse and Remote Keyboard Control
- ▶ Remote Access over 10/100 Mbit Ethernet or ISDN or (optional) analogue modem
- ▶ Remote hard reset (Cold boot)
- ▶ Virtual Power Button Auto configuration of IP address via DNS/DHCP
- ▶ External Power Backup
- ▶ Administration via Java based administration front end over encrypted communication line.
- ▶ System health information (fan, power state, E)

**E**RIC is the first manufacturer-independent remote administration system based on a stand-alone computer. eRIC is integrated in the server system and provides extreme stability and availability via an embedded operating system and an embedded web server independent of the actual functional state of the server operating system. Administrators therefore now have complete control and unrestricted access to the system via remote control even in cases of serious system defects no matter what the time or where they are.

#### ACCESSIBILITY WITHOUT COMPROMISE

eRIC is the first manufacturer-independent remote administration system in the world that gives administrators unrestricted access to their systems. eRIC allows access to all relevant system resources such as boot screen, boot disk, CMOS setup or even a hardware reset via remote access — irrespective of the operating status of the server system — from any external PC via LAN, modem, ISDN or the

internet. In addition, it provides all required system information such as fan operation, processor temperature, etc. and gives full remote keyboard, video and mouse (KVM) access in text or graphics mode.

#### SECURITY WITHOUT COMPROMISE

eRIC provides extremely high security by the combination of different encryption and log mechanisms. Access to the card functions is optionally possible via an encrypted connection using the recognized HTTPS protocol or socket security layer SSL 2.3. In addition, a secondary password independent of the host computer password is required. All activities initiated by eRIC are irreversibly logged. The data can only be deleted using additional tools not available through the network.

#### AVAILABILITY WITHOUT COMPROMISE

The productivity and success of a company are increasingly dependent on the availability of the IT

infrastructure. If a server system or even just a local workstation is down, a lot of money is being lost. A rapid response to problems is an absolute necessity. eRIC allows a rapid remote response. Practically any workstation can be used to respond fast in the event of malfunction. But eRIC is also an indispensable aid for "normal" administration work such as software installation, updates or maintenance, etc.: because the personal presence of the system administrator is frequently no longer necessary, both time and money can be saved.

## Specifications

### HARDWARE —

- Embedded processor 405GP, 32 Bit RISC CPU Core ( Power PC ), 200 MHz clock speed with 282 MIPS (Dhrystone 2.1)
- Integrated 10/100 Mbps Ethernet Controller
- Local PCI bus to reduce traffic load on host PCI busses
- Complete VGA graphics on board, 2 resp.4 MB video ram on board, 64 bit graphics accelerator engine for Bit Block Transfer (BitBLT), Hardware cursor, Color keyed overlay engine, Support all common SVGA modes
- Up to 32 Mbytes SDRAM plus 4 to 64 Mbytes Flash-ROM
- ISDN support on board
- 32-Bit PCI-Controller(master capable), compliant to PCI 2.1
- three different ways of power supply PCI, external power supply, Wake on LAN

- switch for hard reset of the remote system
- switchfor ATX power on/off of the remote system
- max. power consumption 1A / 3,3V
- Power Supply Monitor
- Real Time Clock
- Alarm noise.

### INTERFACES —

- 10/100 Mbps Ethernet, Medium: 10 Mbps: UTP Cat. 3, 4, 5, 100 Mbps: UTP Cat. 5, Jack: RJ-45, 100 Ohm, over 100 m
- Auto media detection (NWAY), LED: Transmit, Receive transmission speed and Link display for 100-Base TX version
- Full duplex and Half-duplex according 802.3x
- Flow Control according 802.3x
- Wake On LAN Interface
- ISDN BRI

- VGA monitor output
- PC MIP slot for optional PCI expansion board according PCI spec 2.1
- RS 232 Jack: Mini-DIN 9 up to 1 Mbps Transmit/Receive
- Hardware-Handshake/Modem support
- System Management Bus SMB
- Generic IO (analog or 5 V)
- Hard-Reset connector, twice
- ATX switch, twice
- External power supply 12 V, 1 A, Jack 2.1 mm.

### SOFTWARE —

- ROM Firmware
- Embedded Linux 2.4 Kernel + Flash-FS In system updateable
- PCI master access and PCI bus analysis
- Host BIOS extension code
- Modem support
- SNMP agent

- DHCP support
- System independent administration software
- Access over embedded web server and Java
- Browser built in http for applet verification and transmission
- 128 bit Socket Security Layer version 2/3 for applet communication
- Optional native Secure Shell access (ssh)
- Tool set: Utility Disk with tools for configuration, ...
- Device Driver for accelerated Video Redirection for Windows NT 4.0, Windows 2000, Linux 2.x

## 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.

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### Ordering information

ITEM	CODE
ServSwitch AccessCard . . . . .	.KVS181C-PCI
External Power Supply . . . . .	.PSS181