IBM

Overview - Remote Supervisor Adapter II

Product Documentation

Abstract

This document contains a table entitled IBM Remote Supervisor Adapter II - Overview

Content

At a glance

Remote Supervisor Adapter II Enhancement now adds accelerated graphics and delivers advanced control and monitoring features to manage your IBM eServer xSeries server at virtually any time, from virtually any place.

New features

- Scriptable command-line interface (CLI) and text-based serial console redirect accessible over Telnet or second serial port
- Point-to-Point Protocol (PPP)
- User authentication information stored on Lightweight Directory Access Protocol (LDAP) server
- Enhanced user authority levels
- Full Systems Network Management Protocol (SNMP)
- Multiple remote drives and disk images
- Remote disk image storage

Existing features

- Secure easy-to-use Web interface
- Graphical console redirection with accelerated graphics
- Remote drive support
- Integration with IBM Director via Management Processor Assistant (MPA)
- Improved keyboard and mouse support
- Enhanced automated server restart (ASR)
- Continuous health monitoring and control
- Advanced Predictive Failure Analysis (PFA)
- Automatic notification and alerts

- Event log; time-stamped, non volatile attachment to e-mail alerts

- LAN, serial, and Advanced System Management (ASM) interconnect remote access

- Simple Network Management Protocol (SNMP) and e-mail alerts

- Domain Name System (DNS) and Dynamic Host Configuration Protocol (DHCP) support

- Remote power control

- Remote firmware update and access to critical server settings

Overview

The Remote Supervisor Adapter II Enhancement, an affordable, next-generation, systems-management adapter, makes everyday management tasks easier and more efficient throughout the life of your IBM eServer xSeries server. The Remote Supervisor Adapter II Enhancement simplifies remote management by providing around-the-clock remote access to selected xSeries servers.

System-independent graphical console redirection

- Built-in video compression hardware eliminates drivers

- Graphics response up to five times faster than with predecessor makes monitoring and control more efficient

- System-independent installation
    - Eliminates the need to install service processor drivers

    - Helps save IT staff time

    - Reduces installation complexity

Remote diskette and CD-ROM drive support

- Enables remote booting and software loading of the server for:
    - Diagnostics

    - Application or operating system installation and updates

    - Single server deployment

- Performs configuration and diagnostics remotely; helps save IT time and money by reducing on-site presence and server downtime

- Includes security with 3DES encryption

Industry-standard tools and interfaces

- Secure socket layer (SSL) secures user data through 128-bit encryption while communicating via Hypertext Transfer Protocol (HTTP) with the Remote Supervisor Adapter II

Scriptable command-line interface and text-based serial console redirect:

- Command-line interface supports program control of server management functions using scripts

- Serial text redirect provides access to text-mode BIOS and text-based system consoles such as Linux, NetWare, and Windows Expanded Memory Support (EMS)

- Program control of text-based console using scripts

- Two serial ports supported; extra serial port can be used to redirect the console of an additional device

User authentication and authority features

- User IDs, passwords, and login permission attributes can be stored in a Lightweight Directory Access Protocol (LDAP) server.

- Enhanced user authority levels sets the access rights for users to match job responsibilities for managing your xSeries servers.

- Secure Sockets Layer (SSL) encrypts the data transmitted between LDAP server and the Remote Supervisor Adapter II

Investment protection

- Supports IBM Interconnect (RS485) connection with other xSeries servers - Helps reduce cost by maintaining compatibility with installed xSeries servers containing Advanced Systems Management Adapters or Remote Supervisor Adapters

- Integrated with IBM Director V4.1 and Director Agent - Provides support for inband status and alerts through Director management tools

In addition to these features, the Remote Supervisor Adapter II supports the feature set of your existing network of IBM systems-management hardware, such as:

- Remote management independent of server on/off status

- Remote control of hardware and operating systems

- Easy-to-use, embedded Web server management from a standard Web browser

Warranty

3 year customer carry-in exchange

Packaging

- System management adapter

- 56-watt AC adapter

- Two power cords (country specific and one for attaching PDU or UPS)

- Internal 20-pin planar cable 1 o One high-density cable 1

- Mini USB cable

- Drivers and utilities on CD-ROMs

- Installation instructions/warranty

Product Marketing and Replacement Part Numbers (FRU)

Description	Marketing part number	Replacement part number (FRU)
Remote Supervisor Adapter II	59P2984 (North America) 59P2986 (Europe, Middle East, Africa) 59P2987 (Denmark) 59P2988 (South Africa, India) 59P2989 (United Kingdom) 59P2990 (Switzerland) 59P2991 (Italy) 59P2992 (Israel) 59P2993 (Korea) 59P2994 (Japan) 59P2995 (Australia, New Zealand) 59P2996 (Argentina) 59P2997 (China	73P9265 replaces 59P2998
Uninterrrupted Power Supply (UPS)/Power Distribution Unit (PDU) line cord	.	00N7691
56W AC adapter	02K6809	02K6815
Line cord	.	76H3516
Mini USB cable	02R1642	02R1645
20-pin planar cable	.	02R1661
20-pin planar cable (with USB signals)	.	02R1647
26-pin planar cable	.	02R1646
xSeries 305 connector cable	73P9277	73P9295

Technical Specifications

- Half-length, 32-bit, up to 66 MHz PCI adapter

- IBM ASIC with integrated PowerPC® 405 core executing at 200 MHz

- 8 MB SDRAM

- 4 MB Flash ROM

- Internal 20-pin planar cable

- Mini USB cable

- External cable with single high-density connector, dual RJ-48 ports, and two serial ports

- External connectors

- One high-density connector supporting two RS232 (9-pin) Serial Ports and the ASM interconnect

- Analog video

- 10/100 Base T Ethernet Port (RJ-45)

- Mini USB

- Power connector for external AC adapter

- Two status LEDs (externally visible on bracket) and two status LEDs on the Ethernet port

Physical, environmental and compatibility specifications as known at time of announcement

Operating Temperature

- 10° to 35°C (50° to 95°F) at 0 to 914 m (0 to 3,000 ft)

- 10° to 32°C (50° to 90°F) at 914 to 2,133 m (3,000 to 7,000 ft)

Relative Humidity

- 8% to 80%

Agency Approvals

- Verified to comply with Part 15 of the FCC Rules for a Class A digital device

- UL 1950

- AS/NZS 3548: 1995, Amendment 1: 1997, Amendment 2: 1997 (C-Tick)

- VCCI V-1/98.04, V-2/97.04 (Japan)

- EN55022: 1998 (CE-Mark)

- EN55024: 1998 (CE-Mark)

- EN60950: (CE-Mark)

- IEC 950 (CB)

- CNS-13438 BSMI (Taiwan)

ENERGY STAR-Compliant: No. The ENERGY STAR emblem does not represent EPA endorsement of any product or service.

Hardware Requirements

Visit the Serverproven site to determine hardware compatability *(http://www.ibm.com/servers/eserver/serverproven/compat/us/)*
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Software Requirements

- Windows 2000 Server

- Windows 2000 Advanced Server

- Linux

  - Red Hat 7.3

  - SuSE 8.0

Note: For the latest information on network operating systems supported with the Remote Supervisor Adapter II Enhancement, visit: http://www.ibm.com/servers/eserver/serverproven/compat/us/

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Limitations

Each supported xSeries server contains a specific PCI slot that supports the Remote Supervisor Adapter II or the Remote Supervisor Adapter II Enhancement. When you install the Remote Supervisor Adapter II Enhancement, any PCI adapter already installed in that slot must be relocated. In some instances adjacent PCI slots may automatically be reconfigured to 66 MHz bus speed.

Applicable countries and regions

- Worldwide

Document Information

More support for:

System x Hardware Options->Remote Supervisor Adapter (RSA)->Remote Supervisor Adapter II

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