

US - IBM RS/6000 Model N40

IBM U.S. Sales Manual

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Type Model	Announced	Available	Marketing Withdrawn	Service Discontinued	Replaced By
7007-N40	1994/03/08	1994/03/25	1995/09/19	1997/06/30	-



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IBM UNIX systems consist of the IBM eServer pSeries and IBM RS/6000 product lines. Providing unprecedented value, these innovative systems feature IBM's leading-edge technology and run the top-rated UNIX operating system, AIX. This broad product line ranges from powerful workstations ideal for mechanical design; to mission-critical symmetric multiprocessing (SMP) servers for ERP, SCM, CRM, transaction processing, and Web serving; up to parallel RS/6000 SP systems that can handle demanding scientific and technical computing and business intelligence tasks. These platforms provide the power to create change and the flexibility to manage it, with thousands of applications that provide real value. More than 1,000,000 systems have shipped to over 135,000 businesses worldwide.

Model Abstract 7007-N40

(For IBM US, No Longer Available as of September 19, 1995)

The IBM RS/6000* 7007 notebook workstation is the ideal portable companion for mobile professionals who want to

take AIX* on the road. Based on the PowerPC architecture, the 7007 notebook offers workstation performance in a lightweight portable package. Capable of running AIX* 3.2.5 compatible applications, the RS/6000 notebook features a PowerPC 601 single chip processor with a 32 KB unified instruction and data cache, operating at 50 Mhz. It supports main memory sizes from 16 MB to 64 MB. It features a 9.4" TFT color active matrix display (640 x 480 with pan and zoom to 1280 x 1024), and has a removable disk drive with 340 MB capacity. Its other features include a Trackpoint II pointing device, a high speed modem, and support for either two Type 1 or Type 2 PCMCIA credit card sized adapters or one Type 3 PCMCIA adapter. Its external ports include Ethernet, SCSI-2, external display (supporting up to 1280 x 1024 and 256 colors), audio, parallel, AppleTalk**-compliant printer port, serial, and support for both an external keyboard and an external mouse. The RS/6000 7007 also features a built-in speaker and microphone. A port is also provided for future ISDN enabling and ISDN software support. With the emergence of an infrastructure to support truly mobile communications, the 7007 has been designed with leading-edge communications capability. Modem and Ethernet connections are standard. PCMCIA slots exist for a Token-Ring option and future expansion provides the capability for functions like wireless adapters, additional memory, and PCMCIA disk drives.

The RS/6000 N40 weighs 6.9 pounds, and operates from an internal battery pack with a battery life that exceeds 45 minutes. An external, rechargeable battery pack is available that extends the battery life up to 4 hours. AIX for N40 is included with the system.



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Model Highlights 7007-N40

Highest performance notebook computer on the market.

50MHz PowerPC 601 processor, with 32 KB unified instruction and data cache.

RS/6000 N40 preinstalled with AIX for N40 software.

Memory size from 16 MB to 64 MB.

9.4" color TFT active matrix display with pan and zoom.

Standard disk drive: easily removed for data security, portability, and system sharing.

PCMCIA memory/peripheral expansion card technology.

Standard functions including ISDN-enabled port; audio port; AppleTalk-compliant printer port; and modem, serial, Ethernet, parallel, and SCSI-2 ports.



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The RS/6000 N40 weighs 6.9 pounds, and operates from an internal battery pack with a battery life that exceeds 45 minutes. An external, rechargeable battery pack is available that extends the battery life up to 4 hours.

AIX for N40 is included with the system.

The RS/6000 7007 is designed for the advanced mobile professional who requires compatibility with AIX 3.2.5 applications and needs portability function not available before now.

User Productivity

The RS/6000 7007 notebook workstation improves the productivity of mobile professionals whose work travels with them. The RS/6000 7007 was designed to fit into a briefcase and can operate using the battery to support users outside a typical office environment. The TrackPoint II offers pointing device convenience without the requirement for additional

space to operate an external mouse.

System Expandability

The RS/6000 7007 is designed with a wide variety of built-in expansion features. These features improve the portability of the system.

PCMCIA

The RS/6000 7007 system is designed with a PCMCIA slot that can accommodate two Type I, Type II, or one Type III PCMCIA cards. The RS/6000 7007 automatically configures without restarting the system when PCMCIA cards are installed.

External Display, Mouse, and Keyboard Ports

The external display, mouse, and keyboard ports provide the user with the ability to interact with the system using traditional desktop devices back at the office. The external display port provides the ability to attach a wide variety of external displays to the system. Attachable display sizes include 1280x1024, 1152x900, 768x1024 and 640x480. The integrated graphics controller is designed to support resolutions up to 1280x1024 on any size display (including the internal display) and provides a pan function that allows the user to view regions of the screen that are larger than a small display would normally support. The mouse port allows the user to add a mouse or mouse compatible pointer and the keyboard port allows the user to attach a full-sized 101, 102 or 106 key keyboard. The display port can also be used to attach a wide variety of commercially available portable projection panel displays. These displays are especially useful for conferences, meetings, and sales presentations.

SCSI-2 Expansion Port

The SCSI-2 expansion port provides for the attachment of up to 6 additional SCSI-2 storage and media devices. An optional portable SCSI-2 diskette drive is available and is powered by the system unit for portable use. Other external SCSI-2 devices can be attached, for example CD-ROM, R/W Optical, and a large range of disk drives.

Serial and Parallel Ports

These ports provide interfaces for attaching a variety of devices including portable and nonportable printers. A port is provided to attach printers compatible with Apple printer protocols.

Audio Ports

Full 16-bit audio function has been designed into the system. Two audio ports are provided to complement the built-in microphone and speaker. A 1/8" stereo speaker jack is provided for situations where additional amplification is necessary. The other audio port has a fan-out connector with four RCA-type jacks. Two of the jacks are for stereo inputs and two are for stereo outputs.

Ethernet, ISDN, and Modem Communications Ports

Integrated into the system are Ethernet, ISDN-enabled, and 14.4-Kb modem ports. For countries outside the United States and Canada, an additional 14.4-Kb PCMCIA modem is provided with an appropriate data access arrangement (DAA). These ports allow for the best communications solution for each environment on the road, at home, or back at the office.

The integrated modem is a V.32 bis data (300-14,400 bps)/V.17 FAX (300-14,400 bps) modem. It is a full-function state-of-the-art, auto-dialing, auto-answering data/FAX modem. It includes error-correction, data compression, data security, and power management functions.

Business Solutions

The RS/6000 7007 with a high-speed processor (IBM PowerPC 601/50 MHz), large memory (16 to 64 MB), and high-capacity storage (340 MB disk drive) offer the mobile professional the capability to run the same applications while traveling and at the office.

Enabling New Applications

The RS/6000 7007 allows users to take advantage of applications for collection and transmission of data to other systems and LANs, to bring reference material immediately to hand when in the field.

Investment Protection

The RS/6000 7007 provides investment protection to the user that has already invested in the RS/6000 Family of Products. By providing an extension to this family, the customer avoids costly retraining and enables his application to become a mobile part of his computing requirements.



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Model Summary Matrix

Model	Operating System	Battery Weight	Rechargeable Life	External Battery Pack
N40	AIX	6.9 lb	45 min.	Yes

Maximum

Not Applicable.

Customer Setup (CSU)

Yes.

Devices Supported

PRINTERS

- * IBM 3112-001 Page Printer
- * IBM 3116-001, -002, -003 Page Printers
- * HP Color LaserJet
- * HP LaserJet 4/4M
- * HP Laserjet 4Si/4Si MX
- * HP Laserjet 4 Plus/4M Plus
- * HP LaserJet 4V/4MV
- * Lexmark 4039-10R LaserPrinter Plus 10R
- * Lexmark 4039-12L LaserPrinter Plus 12L

- * Lexmark 4039-12R LaserPrinter Plus 12R
- * Lexmark 4039-16L LaserPrinter Plus 16L
- * Lexmark 4047-05E ValueWriter 600
- * Lexmark 4076-02C ExecJet IIc
- * Lexmark 4079-001 Color JetPrinter Plus
- * Lexmark Optra Laser Printer Lxi, Lx, Rx, L, R

Notes:

- * AIX 4.1.3 or later releases are required for these printers.

PRINTER PERIPHERALS

Token Ring for HP JetDirect Network Attachment

IBM Displays

Supported using an industry standard 15-pin D-Shell connection cable.

DISPLAY

DISPLAY	TYPE	RESOLUTION	REFRESH Hz	CABLE FC
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8508 Mono 1280x1024 67 cable provided w/display

6091-023 Color 1280x1024 60 4217

The 6091-023 display (featuring a Trinitron** CRT) has a fixed image size of 21.4 inches/544mm measured diagonally.

6091-019 Color 1280x1024 60 4217

The 6091-019 display (featuring a Trinitron** CRT) has a fixed image size of 17.3 inches/439mm measured diagonally.

6091-19i Color 1280x1024 77 4217

The 6091-019i display (featuring a Trinitron** CRT) has a fixed image size of 17.3 inches/439mm measured diagonally.

POWERdisplay 17 Color 1280x1024 77 4217

1280x1024 60

1024x768 75

1024x768 70

The POWERdisplay 17 display (featuring a Trinitron** CRT) has a maximum viewable image size of 16.1 inches/409mm measured diagonally.

POWERdisplay 19 Color 1280x1024 77 4217
1280x1024 60

The POWERdisplay 19 display (featuring a Trinitron** CRT) has a maximum viewable image size of 17.3 inches/439mm measured diagonally.

6091-016 Color 1280x1024 77 4217
1280x1024 60

The 6091-016 display (featuring a Trinitron** CRT) has a fixed image size of 14.8 inches/375mm measured diagonally.

POWERdisplay 16 Color 1280x1024 77 4217
1280x1024 60

The POWERdisplay 16 display (featuring a Trinitron** CRT) has a fixed image size of 14.8 inches/375mm measured diagonally.

1091-051 Color 1280x1024 72 9020

The 1091-051 display (featuring a Trinitron** CRT) has a fixed image size of 14.8 inches/375mm measured diagonally.

POWERdisplay 16sColor 1280x1024 72 4228

The POWERdisplay 16s (featuring a Trinitron** CRT) has a fixed image size of 14.8 inches/375mm measured diagonally.

5081-016 Color 1280x1024 60 4217

The 5081-016 display (featuring a Trinitron** CRT) has a fixed image size of 14.9 inches/377mm measured diagonally.

8517 Color 1024x768 70 cable provided w/display

6314 Color 1024x768 70 cable provided w/display

6319 1024x768 60 cable provided w/display

6317 Color 1280x1024 60 cable provided w/display
 1024x768 75
 1024x768 70
 1024x768 60

6324 Color 1024x768 60 cable provided w/display
 1024x768 70
 1280x1024 60

6325 Color 1024x768 60 cable provided w/display
 1024x768 70
 1280x1024 60

6327 Color 1024x768 60 cable provided w/display
 1024x768 70
 1280x1024 60

9524 Color 1024x768 60 cable provided w/display
 1024x768 70
 1024x768 70.5
 1280x1024 60

The 9524 display (featuring a Trinitron** CRT) has a maximum viewable image size of 13.03 inches/331mm measured diagonally.

9525 Color 1024x768 60 cable provided w/display
 1024x768 70
 1024x768 75.8
 1280x1024 60

The 9525 display (featuring a Trinitron** CRT) has a maximum viewable image size of 13.7 inches/348mm measured diagonally.

9527 Color 1024x768 60 cable provided w/display
 1024x768 70
 1024x768 75.8
 1280x1024 60
 1280x1024 77

The 9527 display (featuring a Trinitron** CRT) has a maximum viewable

image size of 19.1 inches/391mm measured diagonally.

9521	Color	1024x768	60	cable provided w/display
		1024x768	70	
		1024x768	75.8	
		1280x1024	60	
		1280x1024	77	

Vendor Displays

Mitsubishi	Color	1280x1024	60	4217
HL6915		1024x768	70	
		1024x768	60	

Nanao 9070U	Color	1024x768	60	4217
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NEC 4D	Color	1024x768	70	4217
		1024x768	60	

NEC 5D	Color	1280x1024	60	4217
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1024x768 70

1024x768 60

IDEK MF5117 Color 1024x768 60 4217

SONY GDM1953 Color 1280x1024 60 4217

SONY GDM1954 Color 1024x768 60 4217

SONY GDM1605 Color 1024x768 60 4217

SONY GDM1606 Color 1280x1024 60 4217

Mitsubishi Color 1280x1024 60 4217

HL/FL6615 1024x768 70

1024x768 60

NEC 5FG/6FG Color 1280x1024 74 4217

1024x768 75

Goldstar Color 1024x768 60 cable provided w/display

VGA1465

Hyundai SVGA Color 1024x768 60 cable provided w/display

NEC 3FGx Color 1024x768 60 cable provided w/display

Panasonic C1395 Color 1024x768 60 cable provided w/display

SUN Display Color 1152x900 106 See note

SUN Display Color 1152x900 93 See note

Note: The SUN cable part number is 800229 and may be obtained by calling Tadpole at 1-800-232-6656.

IBM External Storage Devices

IBM 7203 Model 001 Portable Disk Unit

IBM 7204 Model 320 External Disk Drive

IBM 7204 Model 001 1 GB External Disk Drive

IBM 7204 Model 010 1 GB External Disk Drive

IBM 7206 Model 001 2.0 GB External 4mm Tape Drive

IBM 7206 Model 005 4.0 GB External 4mm Tape Drive

IBM 7207 Model 001 150 MB 1/4-inch Tape Drive

IBM 7207 Model 011 525 MB External 1/4-Inch Cartridge Tape Drive

IBM 7207 Model 012 1.2 GB External 1/4-Inch Cartridge Tape Drive

IBM 7208 Model 001 2.3 GB 8mm Tape Drive

IBM 7208 Model 011 5.0 GB 8mm Tape Drive

IBM 7209 Model 001 650 MB R/W Optical Disk Drive

IBM 7209 Model 002 1.19 GB R/W Optical Disk Drive

IBM 7210 Model 001 External CD-ROM Drive

IBM 7210 Model 005 External CD-ROM Drive

Vendor External Storage Devices

Maxtor MXL Series PCMCIA hard disk drives, including:

MXL-105-111 (105 MB)

MXL-130-111 (131 MB)

Model Conversions

None.

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[Physical Specifications](#)

SYSTEM UNIT:

Width: 290 mm (11.8 in.)

Depth: 216 mm (8.5 in.)

Height: 51 mm (2.0 in.)

Weight: 3.1 kg (6.9 l)

DISK DRIVES:

Physical Size:

Height: 17mm (.7 inches)

Width: 70mm (2.8 inches)

Depth: 100mm (4.1 inches)

Weight: 180 g (6.3 oz.)

Performance:

Total Bytes: 250 MB/340 MB
Number of Heads: 3/4
Number of disks: 2
Average seek: 14 msec
Data transfer rate: 9.0 MB/sec (sync)(peak)
Average latency: 7.9msec
Bus interface: SCSI-2
Data buffer: Read 32 KB/Write 32 KB

* USA FCC Class B

* Germany VDE Class B

* Japan VCCI-2

Power Supply:

Voltage: 90 to 240V Nominal (autosensing)

Auto Ranging; 50/60 Hz

Power Supply: External 60W, system input voltage 12V

Battery:

Internal rechargeable pack using 10 AA cells. Battery life exceeds 45 minutes.

External rechargeable pack using 10 D cells, attachable to the rear the systems, connected to it by a cable. Battery life exceeds 4 hours.

Operating Environment

Temperature: 5 to 35 degrees C (41 to 95 degrees F)

Relative Humidity: 8 to 80 (percent)

Noise Level: 5.1 Bels Operating

Noise Level: 4.8 Bels Idle

Limitations

Not applicable.

Hardware Requirements

Model N40

Adequate memory to support user environment

Compatible disk storage for user requirements

Access to AIX/6000 or external input/output devices to support user requirements.

Available Disk Storage Space Table

Installed Storage Capacity	16 MB	32 MB	64 MB	
340 MB	150 MB	100 MB	75 MB	
540 MB	350 MB	300 MB	275 MB	

[Software Requirements](#)

The operating system, AIX for N40 will be preinstalled on the system. For more information refer to Programming Announcement 294-114 dated March 8, 1994.

A backup copy of AIX for N40 on CD-ROM will be shipped with the IBM RS/6000 N40 notebook workstation. See the external ordering section of this announcement for details.



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The following publications are shipped with the RS/6000 N40. Additional copies are available for a fee. To order, contact your IBM representative.

TITLE	FEATURE NUMBER
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IBM RS/6000 N40 Notebook Workstation User's Guide (U.S. English) and IBM RS/6000 N40 Notebook Workstation Quick Reference Guide (U.S. English)	7074
(For IBM US, No Longer Available as of November 10, 1995)	



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[No Charge Specify Codes](#)

The base RS/6000 N40 comes equipped with the following standard features:

50 MHz PowerPC 601 Processor

16 MB of 70ns memory (Expandable to 64 MB)

340 MB removable disk drive

9.4-inch Color Active Matrix, thin film transistor (TFT) liquid crystal display (LCD)

84/85/89-key keyboard with TrackPoint II Pointing Device

Integrated 14.4 Kb modem

PCMCIA slots (two Type I, two Type II or one Type III cards)

Ethernet port

SCSI-2 port

Port for future ISDN enabling

Audio ports, internal microphone and speaker

Parallel port

Serial port

Preinstalled AIX for N40 operating system

IBM RS/6000 N40 notebook workstation User's Guide

IBM RS/6000 N40 notebook workstation Quick Reference Guide

AC Adapter

Two Internal battery packs (10xAA NiMH 1100mAh)

Internal battery pack storage/charger with pass-thru cable

Nylon Carry Case for main unit and spare internal battery pack

AIX for N40 on CD-ROM

Common Cable Pack

The following specifies can only be ordered with the initial plant order.

9.4-Inch Active TFT Color Screen

The RS/6000 N40 provides the user the capability of easy viewing on the large color screen. With its active matrix TFT display, the customer sees crisp bright colors from wide angles of viewing. In a graphical user interface environment, the user can view multiple applications at the same time on a brilliant 9.4-inch high-resolution active matrix color LCD screen with 256 color support. A zoom and pan display function allows the user to maintain an entire 1280 x 1024 image in display memory while viewing a 640x480 pixel image on the display. The user can zoom out to display the entire 1280x1024 image in a dithered format when views of a larger area are required.

Trackpoint II

The RS/6000 N40 provides a unique cursor-pointing device called TrackPoint II, which is built into the keyboard. It works like the mouse and allows the user to point and select icons on the screen under control of the application. It consists of a device that stands between the "G" and "H" keys, accompanied by three "Click-Buttons," which are

positioned below the space-bar. The device reacts to pressure from the finger-tips and allows the user to keep his hand positioned in place over the keyboard instead of moving his hand to a different location on the desktop.

Software

AIX for N40 (5696-831)

The operating system, AIX for N40 will be preinstalled on the RS/6000 N40 notebook workstation. Refer to Programming Announcement 21955 dated March 08, 1994 for more information. A backup copy of AIX for N40 on CD-ROM will be shipped with the IBM RS/6000 N40 notebook workstation.

Disk

(#2516) 540 MB SCSI-2 Removable Disk Drive

(For IBM US, No Longer Available as of November 10, 1995)

Additional 540 MB SCSI-2 Removable Disk Drives may be ordered for other users of the N40 in environments where the system might be shared. Different users can load different applications on their personal disk drive and install it for their specific needs.

This disk drive is a 2.5 inch SCSI-2 disk drive that slides easily into the system thru a special panel without opening the system covers. The disk drive features an embedded SCSI-2 interface with a maximum data rate of 10 MB/sec (synchronous to host). Average seek time is 14 ms with latency of 7.9ms.

Memory

8 MB SIMM Memory (Specify) (#9214)

(For IBM US, No Longer Available as of November 10, 1995)

Disk

340 MB SCSI-2 Removable Disk Drive (Specify) (#9213)

(For IBM US, No Longer Available as of November 10, 1995)

Modems

One of the following modem features is standard. The United States modem is integrated on each system, but should be specified for appropriate cabling. Specify the appropriate modem/DAA for the country of usage.

The country selected for the modem and linecord must correspond. Likewise, the country selected for the language group and internal keyboard must correspond.

Integrated Modem for U.S. (#9780)

(For IBM US, No Longer Available as of November 10, 1995)

Modem Cables

Select the appropriate modem cable to correspond with your country modem selection.

Keyboards

Internal Keyboards

Fullsize 85-key or 86-key keyboard with imbedded numeric keypad and integrated TrackPoint II which emulates all the mouse functions. The TrackPoint II is a pencil eraser sized joystick that sits between the 'G' and 'H' keys on the keyboard. The mouse buttons are positioned below the spacebar.

The country selected for the modem and linecord must correspond. Likewise the country selected for the language group and internal keyboard must correspond.

Description	Feature Number
-----	-----
Keyboard - U.S. English	9010

(For IBM US, No Longer Available as of November 10, 1995)

Language Groups

One of the following language groups must specified with each system order. This code will specify which language of AIX for N40 is pre- installed on the initial plant order and the language of any translated publications such as the user guide.

The country selected for the modem and linecord must correspond. Likewise the country selected for the language group and internal keyboard must correspond.

Language Group	Feature Code
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US English	9300
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(For IBM US, No Longer Available as of November 10, 1995)

Power Cords

Ordering Country	Default Option
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Feature Code

C/C Country	Group	Code
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DOM United States	DOM	9800
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(For IBM US, No Longer Available as of November 10, 1995)

[Special Feature Codes -- Chargeable](#)

The following special features can only be ordered with the initial plant order.

Disk

(#2517) 540 MB SCSI-2 Removable Disk Drive (Select)

(For IBM US, No Longer Available as of November 10, 1995)

The Model N40 may be ordered with a 540 MB disk drive in place of the standard 340 MB disk drive on the initial plant order.

This 540 MB disk drive is a 2.5 inch SCSI-2 disk drive that slides easily into the system thru a special panel without opening the system covers. The disk drive features an embedded SCSI-2 interface with a maximum data rate of 10 MB/sec (synchronous to host). Average seek time is 14 ms with latency of 7.9ms. This disk drive can be selected at time of purchase, and will be installed with the system when delivered to the customer.

Memory

(#4027) 16 MB SIMM Memory (Select)

(For IBM US, No Longer Available as of November 10, 1995)

The N40 may be ordered with two 16 MB SIMMs in place of the standard 8 MB SIMMs on the initial plant order. Special

care should be taken when determining the user memory requirements because the initial plant order fills both of the 2 available SIMM memory slots.

(#4028) 32 MB SIMM Memory (Select)

(For IBM US, No Longer Available as of November 10, 1995)

The N40 may be ordered with two 32 MB SIMMs in place of the standard 8 MB SIMMs on the initial plant order. Special care should be taken when determining the user memory requirements because the initial plant order fills both of the 2 available SIMM memory slots.

Feature Descriptions

The following features can be ordered for Plant or Field Installation.

(#4013, P/N 88G2972) 8 MB SIMM Memory (70ns)

(For IBM US, No Longer Available as of November 10, 1995)

SIMMs are 5v operation, 70 ns, Fast Page Mode operation, and are no more than 1 inch high. **NOTE: These SIMMs must be installed in pairs.**

(#4014, P/N 88G2974) 16 MB SIMM Memory (70ns)

(For IBM US, No Longer Available as of November 10, 1995)

SIMMs are 5V operation, 70 ns, Fast Page Mode operation, and are no more than 1 inch high. **NOTE: These SIMMs must be installed in pairs.**

(#4015, P/N 88G2976) 32 MB SIMM Memory (70ns)

(For IBM US, No Longer Available as of November 10, 1995)

SIMMs are 5V operation, 70 ns, Fast Page Mode operation, and are no more than 1 inch high. **NOTE: These SIMMs must be installed in pairs.**

(#7093, P/N 0932860) IBM PCMCIA Memory Card - 4 MB Flash

(For IBM US, No Longer Available as of November 10, 1995)

This card provides ease of memory storage and extension for portable computer applications. This FLASH memory card uses low power, nonvolatile FLASH memory modules that do not require batteries for backup. Flash cards feature block-erase operations and byte-by-byte write operations. For more information, see product announcement 193-157 dated June 8, 1993.

(#7094, P/N 0933155) IBM PCMCIA Memory Card - 2 MB SRAM

(For IBM US, No Longer Available as of November 10, 1995)

This card provides ease of memory storage and extension for portable computer applications. This SRAM memory card uses ultra-low, battery- backed SRAM memory modules that do not require any special programming voltages or

algorithms. For more information see product announcement 193-157 dated June 8, 1993.

Adapters

(#7080) AC Adapter

(For IBM US, No Longer Available as of November 10, 1995)

This adapter will power the system unit using AC power, and will recharge the Internal Battery Pack (#7090) and also the External Battery Pack (#7091).

(#7092, P/N 0933462) IBM Token-Ring 16/4 Credit Card Adapter

(For IBM US, No Longer Available as of November 10, 1995)

The Token-Ring Credit Card Adapter is a credit-card-sized, token-ring adapter designed to function in machines with Personal Computer Memory Card International Association (PCMCIA) Type II slots. The function of a full-size adapter is offered in a package the size of a credit card. This adapter adheres to IEEE 802.5, ECMA 89 and PCMCIA Release 2.0 standards. The adapter functions at either 16 MB/second or 4 MB/second. A Token-Ring Credit Card Adapter cable, shipped with the adapter, is used to connect to existing token-ring cabling (STP and UTP). A customer-supplied attachment cable is required to attach to the IBM Token-Ring Network. The IBM Token-Ring Network PC Adapter Cable (6339098) and IBM 16/4 Workstation Filter (93F2973), previously announced, are available from IBM. See product announcement 192-213 dated September 15, 1992 for more information. The Token-Ring Credit Card Adapter cable is approximately 100mm long with a 9 pin D-shell female connector on one end and an adapter connector on the other.

Modems

(#7070, P/N 42G2582) IBM High Speed PCMCIA Data/FAX Modem

(For IBM US, No Longer Available as of November 10, 1995)

The IBM High Speed PCMCIA Data/FAX Modem is a V.32bis Data(300-14,400 bps)/V.17 FAX (300-14,400 bps) "PC Card" (PCMCIA Release 2.0 Type II) modem. This is a state-of-the-art, full function, auto-dialing, auto answering, data/FAX modem. It is an international modem with error correction, data compression, data security, and power management capabilities. The modem has facilities for cellular phone interface cables and an acoustic coupler. For more information refer to Programming Announcement 193-086 dated March 30, 1993.

Cables

(#2936) ASYNC Cable EIA-232/V.24

(For IBM US, No Longer Available as of November 10, 1995)

Used to attach serial devices to the standard I/O ports or the 8-port Assembly. The cable is 3 meters (9.8 feet) in length.

(#2937) Printer/Terminal Interposer EIA-232

(For IBM US, No Longer Available as of November 10, 1995)

The Printer/Terminal Interposer EIA-232 is used in conjunction with the Cable EIA-232/V.24 (#2936) to provide the

proper wiring for the attach IBM terminals, plotters, and printers to the 8-Port Async adapter and standard I/O serial ports.

(#2833) Integrated SCSI-2 Controller Cable

(For IBM US, No Longer Available as of November 10, 1995)

The Integrated SCSI-2 Controller Cable (#2833) connects the 50-pin integrated SCSI-2 Controller on a RS/6000 system unit planar board to the first external SCSI-2 device (not including the IBM 3510 PS/2* Storage Enclosure device). The cable is 1.48 meters (5 feet) in length. It provides two 50-pin industry-standard connectors on the device end for attachment of SCSI-2 devices having one industry standard SCSI-2 signal port. This feature includes a terminator.

(#2834) SCSI-2 Single-Ended Controller Cable

(For IBM US, No Longer Available as of November 10, 1995)

This cable connects the 50-pin integrated SCSI-2 Controller on a RISC System/6000 system unit planar board to the first external SCSI-2 device; it should be used when attaching IBM PS/2 SCSI-2 Storage Enclosure (#3510-0Vo) and other devices requiring single-ended attachment. The cable is 1.48 meters (five feet) in length, and provides one 50-pin industry-standard connector on the device end for attachment of single- port SCSI-2 devices. This feature includes a terminator.

(#3100) PC Parallel Printer Cable

(For IBM US, No Longer Available as of November 10, 1995)

Allows attachment of a RS/6000 N40 notebook workstation supported printer to the system parallel printer port. The cable is 3 meters (9.8 feet) in length.

(#3130) SCSI-2 Device-to-Device Cable

(For IBM US, No Longer Available as of November 10, 1995)

The SCSI-2 Device-to-Device Cable is used if more than one external device is attached. This cable is 0.66 meters (2.2 feet) in length.

(#4218) Token-Ring Cable

(For IBM US, No Longer Available as of November 10, 1995)

This cable attaches the IBM Token-Ring 16/4 Credit Card Adapter (#7092) with standard 100mm converter to a Token-Ring network. It is approximately 2 meters long.

(#2836) SCSI-2 Controller Cable

(For IBM US, No Longer Available as of November 10, 1995)

Connects the 50-pin high density SCSI-2 Controller (#2410) connector to the first external SCSI-2 device. The cable is 1.57 meters (5.2 feet) in length and provides two 50-pin industry-standard connectors on the device end for attachment of SCSI-2 devices having one or two industry standard SCSI-2 Signal ports. Includes SE (single ended) terminator.

(#4228) Gt1 High Density 15-Pin-D to 1091 5-BNC Cable

(For IBM US, No Longer Available as of November 10, 1995)

This cable attaches the N40 system unit to the POWERdisplay 16S. The POWERdisplay 16s (featuring a Trinitron** CRT) has a fixed image size of 14.8 inches/375mm measured diagonally.

(#4217) 6091 Attach Cable

(For IBM US, No Longer Available as of November 10, 1995)

This cable attaches the N40 system unit to the IBM POWERdisplays (except the POWERdisplay 16S, featuring a Trinitron** CRT, which has a fixed image size of 14.8 inches/375mm measured diagonally), the IBM 5081 and IBM 6091 displays and many vendor displays (see accompanying chart). It has 5 BNC connectors at one end (red, green, blue, horizontal and vertical syncs) and a 15 pin D-shell connector at the other end.

Other

(#6041) 3-Button Mouse

(For IBM US, No Longer Available as of November 10, 1995)

The 3-Button Mouse is a dynamic tracking pointing device which utilizes Opto-mechanical technology. Resolution is 320 DPI. A 2.74 meter (108 inch) attachment cord is included. The Mouse will be available only via MES and will be assigned a ship date within thirty (30) days of the machines scheduled ship date.

(#7087) 10Base2 Micro-transceiver

(For IBM US, No Longer Available as of November 10, 1995)

The 10Base2 Micro-Transceiver is compatible with Ethernet/IEEE 802.3 transceiver specifications and 10M bps Ethernet CSMA/CD operation. The transceiver provides a connection to thin Ethernet coaxial cable (10Base2). It connects directly to a 15-pin AUI connector on the back of the main system unit and converts the signal to 10Base2. The medium connection is made through BNC coaxial connector.

(#7088) 10BaseT Micro-transceiver

(For IBM US, No Longer Available as of November 10, 1995)

The 10BaseT Micro-Transceiver provides the complete Attachment Unit Interface (AUI) to a twisted pair LAN connection. It connects directly to a 15-pin AUI connector on the back of the main system unit and converts the signal to 10BaseT. The medium connection is made through an RJ-45 receptacle.

(#7089) Soft Carry Case for RS/6000 N40 and Peripherals

(For IBM US, No Longer Available as of November 10, 1995)

Synthetic hide carrying case with 2 zip up compartments, that provides carrying capacity for main unit, spare internal battery and external battery pack, AC adapter, cables, plus a pouch for manuals and documentation, and a wallet for holding papers. It also includes a detachable shoulder strap.

(#7090) Internal Battery Pack (10xAA NiMH 1100mAh)

(For IBM US, No Longer Available as of November 10, 1995)

The Internal Battery Pack is a rechargeable battery pack, made up of 10 AA-sized Nickel Metal Hydride (NiMH) cells, that fits inside the main unit covers (in a compartment under the keyboard). It is also chargeable if fitted into the Internal Battery Pack Storage charger. Energy capacity is approximately 1100mAh). The battery life under normal operation is approximately 45 minutes.

(#7097) Internal Battery Pack Storage/Charger

(For IBM US, No Longer Available as of November 10, 1995)

This element will provide a storage space for an extra Internal Battery Pack and can be used to charge it, when properly connected to the AC adapter.

(#7096, P/N 88G3030) 12V Car Cigar-Lighter Adapter

(For IBM US, No Longer Available as of November 10, 1995)

A power converter that allows the system to be operated from a typical 12V cigar/cigarette lighter in an automobile. It will allow full system operation, and simultaneously charge the internal battery pack.

(#7091) External Battery Pack and Cable (10xD NiCD 5700mAh)

(For IBM US, No Longer Available as of November 10, 1995)

A rechargeable battery pack, that is attached externally to the main unit. It can be connected either by a snap-on connection of the battery pack unit to the rear of the system, or it can be connected via cable, with the battery pack free-standing (not attached). It is made up of 10 D-sized Nickel Cadmium (NiCd) cells, and the charger for the battery pack with a capacity of approximately 5700mAh. The battery life with typical use scenarios is greater than 4 hours.

Diskette

(#7086) External SCSI-2 Diskette Drive w/ Carry Case

(No Longer Available. Replaced by feature #7079)

The external SCSI-2 2.88 MB diskette drive is a 3.5-inch one-inch high diskette drive with up to 2.88 MB of formatted capacity when a 3.5-inch 4MB diskette is installed. In addition, this drive maintains read/write capability with 720 KB or 1.44 MB diskettes. The diskette drive has stylization consistent with the system.

Special Features - Plant and/or Field Installable

SCSI DEVICES

(#7079) - External 1.44 MB SCSI-2 Diskette Drive

(#7079) External 1.44 MB SCSI-2 Diskette Drive

(For IBM US, No Longer Available as of November 10, 1995)

The external 1.44 MB SCSI-2 diskette drive is a 3.5-inch one-inch high diskette drive with up to 1.44 MB of formatted capacity, when a 3.5-inch diskette is installed. In addition, this drive maintains read/write compatibility with 720 KB diskettes. The diskette drive has stylization consistent with the system. A carry case is included.

Attributes provided: drive for 3.5-inch 1.44 MB capacity diskette

Attributes required: SCSI-2 adapter

For 7007-N40:

Minimum required: 0

Maximum allowed: 1

AIX level required: 4.1.3, 3.2.5 with all PTFs installed

Initial Order/MES/Both/Supported: both

Disk

(#2519) 810 MB SCSI-2 Removable Disk Drive

(For IBM US, No Longer Available as of November 10, 1995)

A new IBM SCSI-2 810 MB Removable Disk Drive is being offered for the RS/6000 N40 notebook workstation, extending the storage capacity for the system.

Form Factor 2.5 inch removable

Cable included No

External Interface 8 bit SE

Attachment Industry Spec. ANSI/SCSI-2

SCSI Bus Interface Speed 300 KB/sec avg. 2.8 MB/sec max. burst

Command Set SCSI-2

Average Latency..... 7.9ms

Average Seek Time..... 14ms

Rotational Speed..... 3800 RPM

Media Data Transfer Rate 10 MB/sec (sync)(peak)

Data Buffer..... Read 32KB/Write 32 KB

Provides: 810 MB of SCSI-2 disk storage; Requires: Slot provided in N40; Minimum required: 1; Maximum allowed: 1;
AIX level required: AIX for N40; Initial Order/MES/Both: Both.

(#2520) 810 MB SCSI-2 Removable Disk Drive Select

(For IBM US, No Longer Available as of November 10, 1995)

A new IBM SCSI-2 810 MB Removable Disk Drive is being offered for the RS/6000 N40 notebook workstation,

extending the storage capacity for the system.

Form Factor 2.5 inch removable

Cable included No

External Interface 8 bit SE

Attachment Industry Spec. ANSI/SCSI-2

SCSI Bus Interface Speed 300 KB/sec avg. 2.8 MB/sec max. burst

Command Set SCSI-2

Average Latency..... 7.9ms

Average Seek Time..... 14ms

Rotational Speed..... 3800 RPM

Media Data Transfer Rate 10 MB/sec (sync)(peak)

Data Buffer..... Read 32 KB/Write 32 KB

Provides: 810 MB of SCSI-2 disk storage; Requires: Slot provided in N40; Minimum required: 1; Maximum allowed: 1;
AIX level required: AIX for N40; Initial Order/MES/Both: Initial.

(#2547) 340 MB SCSI-2 Removable Disk Drive (2.5")

(For IBM US, No Longer Available as of November 10, 1995)

This disk drive is a 2.5 inch SCSI-2 disk drive that slides easily into the system thru a special panel without opening the system covers. The disk drive features an embedded SCSI-2 interface with a maximum data rate of 9 MB/sec (synchronous to host). Average seek time is 13ms with latency of 7.9ms. Additional 340 MB SCSI-2 Removable Disk Drives may be ordered for additional users of the N40 in environments where the system might be shared. Different users can load different applications on their personal disk drive and install it for their specific needs.

Software

(#7071) AIX for N40 CD-ROM Media

(For IBM US, No Longer Available as of November 10, 1995)

The operating system, AIX for N40 will be preinstalled on the Model N40. Refer to Programming Announcement 294-114 dated March 8, 1994 for more information.

A backup copy of AIX for N40 on CD-ROM will be shipped with the Model N40. Feature number 7071 can be ordered for replacement copies of AIX for N40 on CD-ROM.

The CD-ROM containing AIX for N40 software may be updated at times as volumes of service corrections may require. These updates are ordered using the same feature number (7071) since they enhance and replace the original CD-ROM. In addition, the Wabi 1.1 and ISDN enhancements are also contained on this CD-ROM for new and existing customers.

Users who purchase the Support Line for Mobile Systems software service offerings are provided the CD-ROM as updates are released at no additional charge.

Users who do not choose to purchase the software service offering can get updates to CD-ROM by purchasing the feature

number 7071 each time they require an update.

External Keyboards

External Keyboards:

External Keyboards will be available only via MES and will be assigned a ship date within thirty (30) days of the machines scheduled ship date.

(#6010) Keyboard - 101 Keys

(For IBM US, No Longer Available as of November 10, 1995)

Supports 101 keys, speaker, and double rate typematic default speed for the cursor keys. A detachable 3 meter (9.8 feet) cable is included.

[Feature Exchanges](#)

None.

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None.

Customer Replacement Parts

None.

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None.

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None.

Diskettes

None.

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