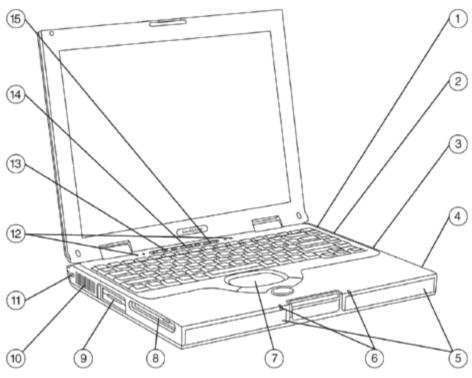
Overview

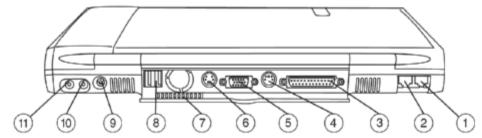
Compaq Evo Notebook N1020v

HP recommends Microsoft® Windows® XP Professional



- 1. 1394
- 2. Infrard
- 3. Optical Drive
- 4. Battery
- 5. Stereo Speakers
- 6. System LEDs
- 7. Dual Pointing Devices
- 8. Diskette Drive

- 9. PC Card Slot (1)
- 10. Kensignton Lock
- 11. Air Vent
- 12. Keyboard LEDs
- 13. Easy Access Buttons
- 14. Power Button
- 15. Volume Control



- 1. RJ-11
- 2. RJ-45
- 3. Parallel
- 4. PS/2
- 5. VGA
- 6. S-video

- 7. Air Vent
- 8. USB
- 9. DC In
- 10. Audio in
- 11. Headphone



Overview

At A Glance

- Intel® Pentium® 4 processors up to 2.4 GHz; Intel Celeron™ processors up to 1.7 GHz
- Microsoft® Windows® XP Pro, Microsoft Windows XP Home and Microsoft Windows 2000
- 15-inch XGA, SXGA+ and 14.1-inch XGA display
- Configurations as light as 6.6 lb (3 kg) weight (14-inch panel)
- 1.55 in (3.95 cm) thin
- 256 MB DDR SDRAM (266 MHz), Upgradeable to 1024 MB
- Up to 60-GB SMART hard drives
- Mini PCI modem and integrated NIC
- Full-size keyboard
- Includes a one-year, Worldwide Warranty Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

What's New

- Intel Pentium 4 processors up to 2.4 GHz; Intel Celeron processors up to 1.7 GHz
- 400-MHz bus
- 4X AGP Graphics
- MultiPort wireless communication options
- · Choice of Touchpad or Dual Pointing Device

What's Special

- Intel Pentium 4 processors
- All-in-one convenient design
- Latest USB interface
- Wireless features thru award-winning MultiPort
- Common Docking Options



Standard Features

Processor and Panel

One of the following:

15-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal)

15-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)

14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)

2.4 GHz Intel Pentium 4 processor with 512 KB L2 cache

2.2 GHz Intel Pentium 4 processor with 512 KB L2 cache

2.0 GHz Intel Pentium 4 processor with 512 KB L2 cache

1.8 GHz Intel Pentium 4 processor with 512 KB L2 cache

1.9 GHz Mobile Intel Pentium 4 processor with 512 KB L2 cache

1.8 GHz Mobile Intel Pentium 4 processor with 512 KB L2 cache

1.7 GHz Intel Celeron with 256 KB L2 cache

1.6 GHz Intel Celeron with 256 KB L2 cache

1.5 GHz Intel Celeron with 256 KB L2 cache

Operating System

Microsoft Windows XP Pro (requires 256 MB of memory minimum). Microsoft Windows 2000, or Microsoft Windows XP Home (limited language availability) preinstalled

Memory

Standard/Maximum

128 MB (266 MHz) DDR SDRAM (128 MB SODIMM in slot 1) 256 MB (266 MHz) DDR SDRAM (256 MB SODIMM in slot 1) 576 1024 MB (266 MHz) DDR SDRAM (512 MB SODIMMs in slots 1 and 2)

NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend Compag branded memory to ensure compatibility.

NOTE: Intel Pentium 4 processors, speed denotes maximum performance mode on AC power; processor speed on battery ower is approximately 64% of maximum performance mode.

NOTE: 128MB of DDR standard with 16MB of shared video memory NOTE: 256MB of DDR standard with 32MB of shared video memory NOTE: Up to 64MB of shared video memory user configurable

NOTE: Shared video memory (UMA) uses part of the total system memory for video performance.

For example, if there is 128mb of system memory and 16mb of shared memory for video graphics, the system has 112mb left of available system memory for other computing activities.

Communications

10/100 NIC is integrated on the system board

Type III Mini PCI 56K (V.92) modem

NOTE: Designed only to allow faster downloads from V.92 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions.

NOTE: Modem availability is subject to country regulatory approval

Keyboard

88-key compatible keyboard with isolated, inverted-T cursor control keys, special feature hotkeys for instant access to power conservation, toggle between internal and external, or simultaneous displays, and control brightness and contrast.

Easy Access Internet Buttons

The Evo Notebook N1020V comes with three Easy Access Buttons (EAB) designed to increase customer productivity by providing one-touch access to helpful Compaq information, favorite Internet destinations, or default e-mail application. The EAB portion of the keyboard deck also includes dedicated hardware volume control and a quick-launch button for CD/DVD play.



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Pointing Device Choice of touchpad with 4-way scroll or dual pointing devices (both pointstick and touchpad)

PC Card Slots One Type II PC Card Slot which supports both 32-bit CardBus and 16-bit PC Cards

Storage Fixed Diskette Drive 1.44-MB Diskette Drive

Primary Hard Drive 60 GB or

40 GB or 30 GB or 20 GB

Fixed Optical Drive DVD/CD-RW Combo Drive

DVD-ROM Drive CD-ROM Drive

Multimedia JBL Pro Speakers with bass reflex and 16bit stereo sound

Dedicated Hardware volume controls

Headphone-out port Microphone in port

Software MPEG1 support, MPEG2 and DVD

8X DVD/CD-RW Combination Drive (on select models)

8X DVD-ROM Drive with movie playback software (on select models)

24X CD-ROM Drive (on select models)

S-video Port IEEE 1394 Port 4X AGP graphics

16MB or 32MB of DDR (Double Date Rate) Shared video memory

Interfaces	PC Card Slot	One Type II

Enhanced Parallel 1 EPP/ECP PS/2 1 S-Video 1 **VGA** 1 1394 Port Replicator 1 Headphone/Line-out 1 DC Power RJ-11 (modem) 1 **RJ-45 (NIC)**

Infrared Port 1 (4 Mb/s support)

(IrDA 4 MB compliant. IR performance will vary depending on

performance of IR peripherals and application used.)

USB Port 2 LED status indicators 6

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP 3D accelerator with 32-MB DDR

shared video memory VRAM for increased color depth and graphics performance



Standard Features

Display (External) Up to 32-bit per pixel color depth

Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, or 2048 x 1536 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and

color depth settings

Display (Internal) 14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal)

15-inch color TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) 15-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7 M colors internal)

Software Diagnostics for Microsoft Windows

DVD Playback Software

Roxio Easy CD Creator (on CD-RW and DVD/CD-RW models)

Safety and Comfort Guide

Acrobat Reader Reference Guide

Compaq Easy Access Button Software

System Recovery Each unit is shipped with a CD kit for quick recovery (erases hard disk and restores manufacturer

installed image) and software recovery (installs only selected standard software)

Security Configuration Control Hardware

Memory Change Alert Ownership Tag Set-up Password Power-On Password

DriveLock

Enabled for PC SmartCard options

Kensington Lock

Power Supply External 90-watt AC adapter, power cord included.

Battery Standard 8-cell Lithium-Ion battery.

The Evo Notebook N1020v provides over two hours of battery life using the standard 8-cell Lithium-Ion battery.

NOTE: Actual results may vary with product model, configuration, and individual usage. Compaq results of 2:20 (hr:min) were achieved running the Business Winstone 2001 Battery Markä 1.0 on a N1020Vv with a Intel Pentium 4 2.0-GHz CPU, 15-inch XGA panel, 256-MB RAM, 30-GB HDD, 8X DVD, 8-cell Lithium-lon battery, and NIC/modem. System parameters were set according to eTesting Labs' recommendations: panel brightness 50%, hard drive timer three minutes.

NOTE: This test was performed without independent verification by eTesting Labs Inc. eTesting Labs Inc. makes no representations or warranties as to the result of the test. BatteryMark is a trademark of Ziff Davis Publishing Holdings Inc., and affiliate of eTesting Labs Inc., in the U.S. and other countries.



Standard Features

Power Conservation

Hibernation

Instant-on via Standby Pop-ups with three presets

One custom level of power conservation

ACPI compliant

MultiPort

MultiPort is a flexible, innovative solution providing customers the ability to connect to their choice of wireless standards such as 802.11b or Bluetooth. This can be achieved by simply changing out the high-performance wireless module, which is integrated into the top of the notebook. The award-winning MultiPort offers a cost effective means to migrate to future wireless standards as they become available.

Docking

Port replicator and Advanced Port Replicator. The sleek, new port replicator and advanced port replicator designs provide simple and convenient port management. Features include NIC pass through, USB, and a 1394 digital port. Compatible across multiple platforms for lower total cost of ownership.

Service and Support

Compaq Services includes a one-year, Worldwide Limited Warranty, pick-up or carry-in; upgraded warranty and toll-free 7 x 24 hardware technical phone support available.

NOTE: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

Naming Convention The Etymology of a Model name:





Standard Features

N1020vC160X420DC25E Processor 1.60 GHz Celeron

Operating System Microsoft Windows XP Home
Display 14.1-inch color TFT XGA

Cache Memory 256 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 20 GB

Optical Drive 24X CD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP 3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vP200X430VC25O Processor 2.0 GHz Intel Pentium 4 processor

Operating System Microsoft Windows XP Pro Display 14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vP240X540WC250 Processor 2.4 GHz Intel Pentium 4 processor

Operating SystemMicrosoft Windows XP ProDisplay15-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory256 MB (1 DIMM) 266 MHz DDRMaximum Memory1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound



Standard Features

N1020vC160X430DC12E **Processor** 1.60 GHz Celeron

> **Operating System** Microsoft Windows XP Home **Display** 14.1-inch color TFT XGA

Cache Memory 256 KB. L2 Cache

Standard Memory 128 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 24X CD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP 3D accelerator

JBL Pro Speakers with bass reflex and 16-bit stereo sound Audio

One Year Warranty

N1020vP200X430VC25O **Processor** 2.0 GHz Intel Pentium 4 processor

> **Operating System** Microsoft Windows XP Pro Display 14.1-inch color TFT XGA

512 KB, L2 Cache Cache Memory

Standard Memory 256 MB (1 DIMM) 266 MHZ DDR

Maximum Memory 1024 MB (266 MHz) DDR

30 GB **Hard Drive**

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC **Graphics**

ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vP240X540WC25O **Processor** 2.4 GHz Intel Pentium 4 processor

> Microsoft Windows XP Pro **Operating System Display** 15.0-inch color TFT XGA

512 KB, L2 Cache Cache Memory

256 MB (1 DIMM) 266 MHZ DDR Standard Memory 1024 MB (266 MHz) DDR **Maximum Memory**

40 GB **Hard Drive**

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP **Graphics**

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound



Standard Features

N1020vC160X430VC12E Processor 1.60 GHz Celeron

Operating System Microsoft Windows XP Home
Display 14.1-inch color TFT XGA

Cache Memory 256 KB, L2 Cache

Standard Memory 128 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 8X DVD-ROM Drive

Optical Drive 30 GB

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vC170X440VC25E Processor 1.70 GHz Celeron

Operating System Microsoft Windows XP Home
Display 14.1-inch color TFT XGA

Cache Memory 256 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vC170X440WC25E Display 14.1-inch color TFT XGA

Processor 1.70 GHz Celeron
Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Operating System Microsoft Windows XP Home



Standard Features

N1020vP180X430VC250 Processor 1.8 GHz Mobile Intel Pentium 4-M processor

Operating System Microsoft Windows XP Pro
Display 14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP 3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vP180X440WC25O Processor 1.8 GHz Mobile Intel Pentium 4-M processor

Operating SystemMicrosoft Windows XP ProDisplay14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vP180X540WC25O Processor 1.8 GHz Mobile Intel Pentium 4-M processor

Operating System Microsoft Windows XP Pro Display 15.0-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR **Maximum Memory** 1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound



Standard Features

N1020vC150X420DC12O Processor 1.50 GHz Celeron

Operating SystemMicrosoft Windows XP ProDisplay14.1-inch color TFT XGA

Cache Memory 256 KB, L2 Cache

Standard Memory 128 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 20 GB

Optical Drive 24X CD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vC150X420DC122 Processor 1.50 GHz Celeron

Operating System Microsoft Windows 2000
Display 14.1-inch color TFT XGA

Cache Memory 256 KB, L2 Cache

Standard Memory 128 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 20 GB

Optical Drive 24X CD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vP200X530DC122 Processor 2.0 GHz Intel Pentium 4 processor

Operating SystemMicrosoft Windows 2000Display15.0-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory128 MB (1 DIMM) 266 MHz DDRMaximum Memory1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 24X CD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound



Standard Features

N1020vP240P540WC250 Processor 2.4 GHz Intel Pentium 4 processor

Operating SystemMicrosoft Windows XP ProDisplay15.0-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive 24X DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty One Year

N1020vC160X430DC12E Processor 1.60 GHz Celeron

Operating System Microsoft Windows XP Home
Display 14.1-inch color TFT XGA

Cache Memory 256 KB, L2 Cache

Standard Memory 128 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 24X CD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year

N1020vP200X430VC25O Processor 2.0 GHz Intel Pentium 4 processor

Operating System Microsoft Windows XP Pro Display 14.1-inch color TFT XGA

Cache Memory 256 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHZ DDR
Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year



Standard Features

N1020vP240X540WC250 Processor 2.4 GHz Intel Pentium 4 processor

Operating SystemMicrosoft Windows XP ProDisplay15.0-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHZ DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GE

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year

N1020vC160X430VC12E Processor 1.60 GHz Celeron

Operating System Microsoft Windows XP Home
Display 14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 128 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year

N1020vC170X440VC25E Processor 1.70 GHz Celeron

Operating System Microsoft Windows XP Home
Display 14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory256 MB (1 DIMM) 266 MHz DDRMaximum Memory1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year



Standard Features

N1020vC170X440WC25E Processor 1.70 GHz Celeron

Operating System Microsoft Windows XP Home
Display 14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GE

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year

N1020vP180X420VC12O Processor 1.8 GHz Mobile Intel Pentium 4-M processor

Operating SystemMicrosoft Windows XP ProDisplay14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 128 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 20 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year

N1020vP180X430VC250 Processor 1.8 GHz Mobile Intel Pentium 4-M processor

Operating System Microsoft Windows XP Pro Display 14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR **Maximum Memory** 1024 MB (266 MHz) DDR

Hard Drive 30 GB

Optical Drive 8X DVD-ROM Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC

Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year



Standard Features

N1020vP180X440WC250 Processor 1.8 GHz Mobile Intel Pentium 4-M processor

Operating SystemMicrosoft Windows XP ProDisplay14.1-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GE

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year

N1020vP180X540WC25O Processor 1.8 GHz Mobile Intel Pentium 4-M processor

Operating SystemMicrosoft Windows XP ProDisplay15.0-inch color TFT XGA

Cache Memory 512 KB, L2 Cache

Standard Memory 256 MB (1 DIMM) 266 MHz DDR

Maximum Memory 1024 MB (266 MHz) DDR

Hard Drive 40 GB

Optical Drive DVD/CD-RW Combo Drive

Communications Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC Graphics ATI Radeon IGP 340M Integrated UMA architecture ATI 4X AGP

3D accelerator

Audio JBL Pro Speakers with bass reflex and 16-bit stereo sound

Warranty Two Year

Long Model Name	N1020vC160X420	N1020vP200X430	N1020vP240X540
	DC25E	VC25O	WC25O
CPU	Celeron 1.60 GHz	P4-D 2.0 GHz	P4-D 2.4 GHz
Display	14.1-inch XGA	14.1-inch XGA	15.0-inch XGA
Memory	256 MB (1 DIMM)	256 MB (1 DIMM)	256 MB (1 DIMM)
Hard Drive	20 GB	30 GB	40 GB
Discrete Video			
Memory			
Optical	24X CD	8X DVD	DVD/CDRW Combo drive
Secondary Optical			
Diskette Drive	1.44 MB diskette	1.44 MB diskette	1.44 MB diskette
Communications	Modem (Hendrix)/NIC	Modem (Hendrix)/NIC	Modem (Hendrix)/NIC
Input Device	Touchpad	Touchpad	Touchpad
Operating System	Windows XP Home	Windows XP Pro	Windows XP Pro
Battery	8-cell 4.4Ah	8-cell 4.4Ah	8-cell 4.4Ah
Additional SW			
Applications			
Warranty	1 Year	1 Year	1 Year

NORTH AMERICA



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	U.S.	470045-646	470045-647	470045-648
	Canada (English)			
	Fr Canada		470045-650	470045-649
	Fr Canada	470045-651		
	•	·	·	·
	Long Model Name	N1020vC160X430	N1020vP200X430	N1020vP240X540
		DC12E	VC25O	WC25O
	СРИ	Celeron 1.60 GHz	P4-D 2.0 GHz	P4-D 2.4 GHz
	Display	14.1-inch XGA	14.1-inch XGA	15.0-inch XGA
	Memory	128 MB (1 DIMM)	256 MB (1 DIMM)	256 MB (1 DIMM)
	Hard Drive	20 GB	30 GB	40 GB
	Discrete Video			
	Memory			
	Optical	24X CD-ROM	8X DVD	DVD/CDRW Combo drive
	Secondary Optical			
	Diskette Drive	1.44 MB diskette	1.44 MB diskette	1.44 MB diskette
	Communications	Modem (Bowie)/NIC	Modem (Bowie)/NIC	Modem (Bowie)/NIC
	Input Device	Touchpad	Touchpad	Touchpad
	Operating System	Windows XP Home	Windows XP Pro	Windows XP Pro
	Battery	8-cell 4.4Ah	8-cell 4.4Ah	8-cell 4.4Ah
	Additional SW			
	Applications			
	Warranty	1 Year	1 Year	1 Year
JROPE / MIDDLE E	EAST/ AFRICA			
	Arabia		470045-652	470045-653
	Belgium		470045-655	470045-654
	Czech Republic		470045-656	470045-657
	Denmark		470045-659	470045-658
	Europe Intl	470045-661	470045-660	470045-662
	France		470045-664	470045-663
	Germany			
	Germany Greece/Poland		470045-665	470045-666
	Greece/Poland		470045-665 470045-668	470045-666 470045-667
	Greece/Poland Hungary		470045-668	470045-667
	Greece/Poland Hungary Israel (Hebrew)		470045-668 470045-669	470045-667 470045-670
	Greece/Poland Hungary Israel (Hebrew) Italy		470045-668 470045-669 470045-672	470045-667 470045-670 470045-671
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands		470045-668 470045-669 470045-672 470045-673	470045-667 470045-670 470045-671 470045-674
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway		470045-668 470045-669 470045-672 470045-673 470045-676	470045-667 470045-670 470045-671 470045-674 470045-675
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian		470045-668 470045-669 470045-672 470045-673 470045-676	470045-667 470045-670 470045-671 470045-674 470045-675
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677 470045-680	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678 470045-679
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia Slovenia		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia Slovenia South Africa		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677 470045-680	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678 470045-679
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia Slovenia South Africa Spain		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677 470045-680 470045-681	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678 470045-679 470045-682
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia Slovenia South Africa Spain Sweden/Finland		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677 470045-680	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678 470045-679
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia Slovenia South Africa Spain Sweden/Finland Switzerland (GR/FR)		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677 470045-680 470045-681 470045-684 470045-685	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678 470045-679 470045-682 470045-683 470045-686
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia Slovenia South Africa Spain Sweden/Finland Switzerland (GR/FR)		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677 470045-680 470045-681	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678 470045-679 470045-682
	Greece/Poland Hungary Israel (Hebrew) Italy Netherlands Norway Portugal Russian Slovakia Slovenia South Africa Spain Sweden/Finland Switzerland (GR/FR)		470045-668 470045-669 470045-672 470045-673 470045-676 470045-677 470045-680 470045-681 470045-684 470045-685	470045-667 470045-670 470045-671 470045-674 470045-675 470045-678 470045-679 470045-682 470045-683 470045-686



Standard Features

Long Model Name	N1020vC160X 420DC122	N1020vP200X 530DC25O	N1020vP200X 420DC122	N1020vP240P540 WC25O
CPU	Celeron 1.6 GHz	P4-D 2.0 GHz	P4-D 2.0 GHz	P4-D 2.4 GHz
LCD	14.1-inch XGA	15.0-inch XGA	14.1-inch XGA	15.0-inch SXGA+
Total Memory	128 MB (1 DIMM)	256 MB (1 DIMM)	128 MB (1 DIMM)	256 MB (1 DIMM)
HDD	20 GB	30 GB	20 GB	40 GB
Discrete Video Memory				
Optical	24X CD-ROM	24X CD-ROM	24X CD-ROM	24X DVD/CDRW Combo drive
Secondary Optical				
Diskette Drive	1.44 MB diskette	1.44 MB diskette	1.44 MB diskette	1.44 MB diskette
Communications	Modem (Indy)/NIC	Modem (Indy)/NIC	Modem (Indy)/NIC	Modem (Indy)/NIC
Input Device	Touchpad	Touchpad	Touchpad	Touchpad
Operating System	Windows 2000	XP Pro	Windows 2000	XP Pro
Battery	8-cell 4.0Ah	8-cell 4.0Ah	8-cell 4.0Ah	8-cell 4.0Ah
Additional SW Applications				
WARRANTY	1 Year	1 Year	1 Year	1 Year
Japan	470045-695	470045-696	470045-697	470045-698
Japan - English	470045-702	470045-701	470045-700	470045-699



Options			
Memory	512-MB (266 MHz) Memory Upgr	rade	269087-B25
	256-MB (266 MHz) Memory Upgr	ade	269086-B25
	128-MB (266 MHz) Memory Upgr	ade	269085-B25
Monitors	TFT8030 Flat Panel Color 18-inch	ı (carbon/silver)	234362-xx
	TFT7020 Flat Panel Color 17-incl	n with integrated speakers (carbon/silver)	253217-xx
	TFT5015 Flat Panel Color 15-inch	ı (carbon/silver)	234044-xx
	TFT5030 Flat Panel Color 15-inch	ı (carbon/silver)	228134-xx
	V720 17-inch CRT (carbon/silver)		232944-xx
	S720 17-inch CRT (carbon/silver)		239287-xx
	V570 15-inch CRT (carbon/silver)		228113-xx
Other Storage Devices	IBM 1-GB Microdrive (PC card De	evice)	217390-B25
Connectivity	Compaq Type II Mini PCI 56K (V.	90) Modem	225640-B31
-	Compaq Type II Mini PCI 56K (V.	90) Modem plus 10/100 NIC Combo	225642-B31
	100BaseTX Ethernet Upgrade	,	225435-001
	1394 PC Card		177593-B25
	achievable download transmissio conditions.	n rates currently do not reach 56 KB/s, and	will vary with line
Wireless Connectivity	802.11b MultiPort Wireless LAN	module	233412-001
	Bluetooth MultiPort module		228057-B21
	Compaq WL110 Wireless LAN P	C Card	191808-B21
	Compaq WL510 Wireless Enterp	rise Access Point	216709-001
	Compaq WL410 Wireless SMB A	Access Point	191811-001
	Compaq WL310 Home Office Ac	cess Point	191813-001
	Compaq Range Extender Antenn	a	230268-B21
	CDPD WWAN PC Card (U.S. Or	ıly)	238111-001
Expansion Bases	Port Replicator		269095-xx1
	Advanced Port Replicator		269094-xx1
	External MultiBay		217388-001/002
	Monitor Stand		274407-B25
Power	Evo Notebook N1020v	8 Cell primary battery (4 Ah)	278418-B25
	EVO NOLOBOOK IVIOEOV	o och philiary battery (47th)	



Options		
Common Power	External Battery Charger	265603-xxx
Solutions	External Battery Charger (Multiple Battery)	265604-xx1
	AC Adapter (90 W)	283884-xxx
	Aircraft Power Adapter (90 W)	291370-B25
	AC Line Cord 10 ft (3.1 m)	217932-xx2
Input Devices	External Enhanced III Keyboard (carbon)	118003-008
	Compaq 2 Button Mouse (carbon)	103180-B21
	USB 2 Button Scroll Mouse (carbon)	195255-B25
	External 10-Key Numeric Keypad (carbon)	294317-B21
	USB EZ Access Keyboard	222726-xxx
	Wireless Keyboard and Mouse	251385-xx8
Security	Biometric PC Card	146805-B25
	Security Cable Lock	294316-B21
	Compaq Smart Card PC Card Reader	135646-B25
Useful Accessories	Compaq iPAQ Microportable Projector MP1200	261966-xxx
	Compaq iPAQ Microportable Projector MP3800	262839-xxx
	Compaq iPAQ Microportable Projector MP4800	257524-xx>
	Lamp Module L20 for MP1200	266631-B24
	Lamp Module L30 for MP3800	266633-B24
	Home Theatre Kit HT150 for MP3800	292187-B24
	Carrying Case for MP1200	295731-B24
	Lamp Replacement Kit for MP1600	118052-001
	Lamp Module for MP1800, MP1400	189789-001
	Lamp Module for MP2800, MP2810	215464-001
	Home Theater Kit HT110 for MP1410	246161-001
	Multimedia Adapter & Remote Control Kit MMA110 for MP1410	246162-001
	Multimedia Adapter & Remote Control Kit for MP1400, MP1800	174963-001
	Deluxe Carrying Case for MP Series projectors	253364-001
	Lamp Module for MP1410, MP1810	253365-001
	Lamp Module L90 for MP4800	257892-001
	Home Theater Kit HT180 for MP1200, MP4800	281729-001
	CeilingMount Kit CM10 for MP1200, MP4800	281730-001
	hp digital projector sb21	L1510A
	hp digital projector xb31	L1511A
	Ceiling Mount Kit for xb31	L1513A
	M1-A to component/USB video cable for sb21, xb31	L1523A
	M1-D to DVI/USB cable for sb21, xb31	L1529A
	Lamp Module for sb21	L1515A
	Lamp Module for xb31	L1516A



Memory

Compaq Evo N1020V

Standard Memory Plus Optional Memory

Support for up to 1024 MB of DDR SDRAM memory is available with the installation of optional DDR SDRAM Memory Kits.

Memory	Slot 1	Slot 2
256 MB	256 MB	-
384 MB	256 MB	128 MB
512 MB	512 MB	-
768 MB	512 MB	256 MB
1024 MB	512 MB	512 MB

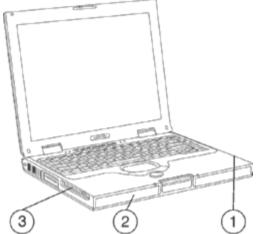
NOTE: This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.

Following are memory options available from Compaq:

• 512-MB (266 MHz) Memory Upgrade	269087-B25
• 256-MB (266 MHz) Memory Upgrade	269086-B25
• 128-MB (266 MHz) Memory Upgrade	269085-B25



Storage



- 1. Dedicated optical drive
- 2. Primary hard drive3. Dedicated diskette drive

Drive Support

System Drive Support	Quantity Supported	Drive Supported
1.44-MB Diskette Drive	1	Dedicated diskette drive
DVD/CD-RW Combo Drive	1	Dedicated optical drive
DVD-ROM Drive	1	Dedicated optical drive
Max CD-ROM Drive	1	Dedicated optical drive
Hard Drives		
60-GB SMART Hard Drive	1	Dedicated hard drive bay
40-GB SMART Hard Drive	1	Dedicated hard drive bay
30-GB SMART Hard Drive	1	Dedicated hard drive bay
20-GB SMART Hard Drive	1	Dedicated hard drive bay



TechSpecs

System Unit	Dimensions (HxWxD)	15-inch and 14.1-inch TFT panel displays	1.55 x 12.89 x 10.53 in (3.95 x 32.75 x 26.75 cm)			
	Weight With P4 Processor	14 inch LCD, DVD or CD-ROM, 1 SODIMM	6.82 lb (3.1 kg)			
	Weight With Celeron Processor	15 inch LCD, DVD or CD-ROM, 1 SODIMM	7.09 lb (3.2 kg)			
		15 inch LCD, DVD or CD-ROM, 1 SODIMM	6.87 lb (3.12 kg)			
	NOTE: * = Weight varies by configuration.					
	Stand-Alone Power Requirements	Nominal Operating Voltage (Li-Ion)	14.4 V (8-cell)			
		Average Operating Power	29.7 W Desktop			
		Peak Operating Power	80 W on AC 55 W on DC			
		Power in suspend mode	< 1000 mW			
		Power in hibernation mode	< 100 mW			
	Power Supply	Rated Input Voltage	100 to 240 VAC			
		Rated Input Current	< 1.5 A			
		Rated Frequency	50 to 60 Hz			
	Temperature	Operating	50° to 95° F (10° to 35° C)			
		Non-operating	14° to 140° F (-10° to 60° C)			
	Relative Humidity	Operating	10% to 90% relative humidity, non-condensing			
		Non-operating	5% to 90% relative humidity, 101.6° F (38.7° C) Maximum wetbulb temperature			
	Shock	Operating	10 G, 11 ms, half-sine			
		Non-operating	60 G, 11 ms, half-sine			
	Vibration	Operating	0.5 G zero-to-peak, 10 to 500 Hz, 0.25 oct/min sweep rate			
		Non-operating	1.0 G, zero-to-peak, 10 to 500 Hz, 0.5 oct/min sweep rate			
	Maximum Altitude	Operating	0 to 10,000 ft (0 to 3,048 m)			
	(unpressurized)	Non-operating	0 to 30,000 ft (0 to 9,144 m)			



TechSpecs

14.1-Inch Color TFT XGA Display

Dimensions (H x W) 11.22 x 8.46 in (28.5 x 21.5 cm)

Diagonal Size 14.1 in (35.81 cm)

Mounting Internal Panel Supports, Side Mounted

Number of Colors Up to 16.8 M

Contrast Ratio150:1Brightness120nt typ

Pixel Resolution Pitch 0.264 x 0.264 mm

Format 1024 x 768 Configuration RGB stripe

BacklightEdge LitCharacter Display80 x 25Total Power4.2 W

Consumption

15-Inch Color TFT SXGA+ Display

Dimensions (H x W) 11.8 x 9 in (30.4 x 22.8 cm)

Diagonal Size 15 in (38 cm)

Mounting Internal Panel Supports, Side Mounted

Number of Colors Up to 16.8 M

Contrast Ratio150:1Brightness150nt typ

Pixel Resolution Pitch 0.218264 x 0.218264 mm

Format 1400 x 1050 Configuration RGB stripe

Backlight Edge Lit
Character Display 80 x 25
Total Power 5.75 W

Consumption

15-Inch Color TFT XGA Dimensions (H x W)
Display Diagonal Size

Dimensions (H x W) 11.8 x 9 in (30.4 x 22.8 cm)

Diagonal Size 15 in (38 cm)

Mounting Internal Panel Supports, Side Mounted

Number of Colors Up to 16.8 M

Contrast Ratio 150:1
Brightness 150nt typ

Pixel Resolution Pitch 0.297 x 0.297 mm

Format 1024 x 768
Configuration RGB stripe

BacklightEdge LitCharacter Display80 x 25Total Power5.0 W

Consumption

Hard Drives



TechSpecs

60-GB Capacity 60 GB

 Drive Weight
 0.34 lb (155 g)

 Height
 0.374 in (9.5 mm)

Width 70 mm Interface ATA-5

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Security ATA Security

Seek TimeSingle Track2.5 ms(typical reads, including settling)Average13 msMaximum23 ms

Rotational Speed 5400 rpm **Logical Blocks** 117,210,240

Operating Temperature41° to 131° F (5° to 55°

C)

Features Security ATA Security

40-GB Drive Weight 0.21 lb (99 g)

Capacity 40 GB

 Height
 0.374 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-5

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Security ATA Security

Seek TimeSingle Track3.0 ms(typical reads, including settling)Average13 msMaximum25 ms

Rotational Speed 4200 rpm Logical Blocks 78,140,160

Operating Temperature41° to 131° F (5° to 55°

C)

30-GB Drive Weight 0.22 lb (99 g)

Capacity 30 GB

 Height
 0.374 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-5

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Security ATA Security

Seek TimeSingle Track2.5 ms(typical reads, including settling)Average12 msMaximum23 ms

Rotational Speed 4200 rpm **Logical Blocks** 58,605,120

Operating Temperature41° to 131° F (5° to 55°

C)



TechSpecs

20-GB Drive Weight 0.21 lb (95 g)

Capacity 20 GB

 Height
 0.374 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-5

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Security ATA Security

Seek TimeSingle Track2.5 ms(typical reads, including settling)Average12 msMaximum23 ms

~ 39,070,080

Rotational Speed 4200 rpm

Operating Temperature41° to 131° F (5° to 55°

C)

Diskette Drive Diskette Size 3.5 in

Logical Blocks

Height 12.7 mm Bytes per Sector 512

Sectors per track High density 18 (1.44 MB)/15 (1.2 MB)

Low density 9

Tracks per side High density 80 (1.44 MB)/80 (1.2 MB)

Low density 80

Read/Write heads 2

Access Times Track-to track (high/low) 3 ms/6 ms

Average (high/low) 94 ms/174 ms

Settling time 15 ms Latency average 100 ms

External AC Adapter Weight 0.85 lb (0.385 kg)

Power Supply (Input) Operating Watts 90

Operating Voltage 110 to 240 VAC RMS

Operating Current 1.5 A RMS
Operating Frequency 50 to 60 Hz AC

Range

Lithium-Ion Battery Dimensions (L x W x D) 4.95 x 3.46 x 0.80 in (12.5 x 8.8 x 2.0 cm)

Pack (8-cell) **Weight** 0.96 lb (0.43 kg)

Energy Voltage 14.8 V

Amp-hour capacity Minimum 3.7 Ah

Typical 3.9 Ah Minimum 53.2 Ah

Watt-hour capacity Minimum 53.2 Ah

Typical 56.1 Ah

Temperature Operating 32° to 108° F (0° to 42° C)

Non-operating 32° to 140° F (0° to 60° C)

TechSpecs

DVD/CD-RW Drive	Center Hole Diameter	15 mm
	Disk Diameter	12 cm, 8 cm
	Disk Thickness	1.2 mm
	Track Pitch	1.6 µm

Access Times Random CD
(typical reads, including settling) Full-Stroke CD

Disk Diameter Random DVD < 140 ms
Disk Thickness Full-Stroke DVD < 225 ms

Audio Output Level 0.7 – 0.9 Vrms

Cache Buffer 2 Mbytes (minimum)

 Data Transfer Rate
 CD-R (8X)
 1200 KB/s (150 KB/s at 1X CD rate)

 (typical, including settling)
 CD-RW (8X)
 1200 KB/s (150 KB/s at 1X CD rate)

 Settling)
 CD-ROM (24X)
 3600 KB/s (150 KB/s at 1X CD rate)

 DVD (8X)
 10,800 KB/s (1352 KB/s at 1X DVD rate)

< 120 ms

< 175 ms

Normal PIO Mode 4 16.6 MB/s

(single burst)

Start-up Time Single < 7 seconds (typical)

Multi-Session < 30 seconds (typical)

Stop Time < 3 seconds (typical)

DVD-ROM Drive Center Hole Diameter 0.59 in (1.5 cm)

Disk Diameter12 cm/8 cmDisk Thickness1.2 mmTrack Pitch0.74 μm

Access TimesRandom (typical)< 150 ms DVD Media</th>(typical reads, including settling)Full-Stroke (typical)< 225 ms DVD Media</td>Random (typical)< 110 ms CD Media</td>

Full-Stroke (typical) < 200 ms CD Media

Cache Buffer 512 KB/s (minimum)

Data Transfer RateMax 24X CD3600 KB/s (150 KB/s at 1X CD rate)(typical, including
settling)Max 8X DVD10,800 KB/s (1352 KB/s at 1X DVD rate)

Start-up Time< 12 seconds Typical</th>Stop Time< 3 seconds Typical</th>

TechSpecs

24X CD-ROM Drive Applicable Disk CD-ROM (Mode 1, 2 and 3), CD-XA ready (Mode 2, Form 1 and 2),

CD-I ready (Mode 2, Form 1 and 2), CD-R (read only), CD Plus, Photo CD (Single and Multi-session), CD-Extra, Video CD, CD-WO (fixed

packets only), CD-Bridge

Center Hole Diameter 0.59 in (15 mm)

Disk Diameter 12 cm/8 cm

Disk Thickness 0.047 in (1.2 mm)

Track Pitch 1.6 μm

Access Times Random < 110 ms

(typical reads, including

settling) Full-Stroke < 220 ms

Audio Output Level Line-out 0.7-0.9 Vrms

Cache Buffer 128 KB

Data Transfer Rate CD-ROM

(typical, including

settling)

D-ROM 3600 KB/s Maximum

Start-up Time < 10 seconds
Stop Time < 5 seconds

802.11b MultiPort Module

Form Factor Compaq "MultiPort"
Weight 0.22 lb (100 g)

(maximum)

Operating TemperatureOperating 14° to 149° F (-10° to 65° C)
Storage Temperature Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10 to 90%

Non-operating 5 to 95%

Altitude Operating 0 to 15,000 ft (4,572 m)

Non-operating 0 to 40,000 ft (12,192 m)

Plug and Play USB 1.1 compliant

Microsoft Windows Plug and Play compliant

RF Network Standard IEEE 802 Part 11b (802.11b)

Frequency Band 2.4000 to 2.4835 GHz

2.4465 to 2.4835 GHz (France) 2.4000 to 2.4697 GHz (Japan)

Number of Selectable Worldwide Certification

Sub-channels | United States (ECC)

United States (FCC) 11
France (FR) 4
Japan (JP) 14
Other countries 13

Data Rates 1, 2, 5.5, 11 Mbps

Antenna type Internally integrated within module (with special polarization diversity)

WEP Security 64-bit encryption keys compliant to IEEE 802.11

128-bit encryption key compliant to IEEE 802.11 Ability to enter keys manually or via pass-phrase

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Points Required)

Modulation Technique Direct Sequence Spread Spectrum: DBPSK, DQPSK, CCK

TechSpecs

Receiver Sensitivity -Bit Error Rate (1E-5)

11 Mbps: -85 dBm 5.5 Mbps: -87 dBm

2 Mbps: -91 dBm 1 Mbps: -94 dBm

Maximum Receive

Operating Voltage

Level

-4 dBm

Output Power 18 dBM

(approximately)

5V power operation

Keystroke Fn+F2 Power On/Off control **Power Management Power Consumption** Transfer mode: < 600 mA, maximum

> Receive mode: > 400 mA, maximum Standby mode: > 1 mA, maximum

Transmit Power 10 to 100mW

It is preferable to have the user configurable output power to save

battery life for laptop users or in high AP coverage areas

Power Saving Option 802.11 Compliant Power Saving

Power Saving Mode selectable through the configuration utility

ACPI compliant power management

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

Microsoft Windows 2000 **OS Support**

Microsoft Windows XP Home Microsoft Windows XP Pro

TCP/IP **Protocols Supported**

IPX/SPX **UDP**

LED Activity Flashing LED - AP Search Mode

> Solid LED - On LED Off - Power Off

Throughput, Data Rate Throughput and Operating **Distance**

> 4.5 Mbps

Data Rate 11 Mbps

• 1000 ft – Open sight

Operating Distance

• 100 ft – Closed space (Steel Space)

> 2 Mbps 5.5 Mbps

1100 ft – Open sight

> 700 Kbps 1 Mbps • 200 feet – Closed space (Steel Space)

1200 ft - Open sight

300 ft – Closed space (Steel Space)

Bluetooth MultiPort Module

Form Factor Compaq "MultiPort" **Bluetooth** 1.1 Compliant

Dimensions 2.2 x 6.6 x 0.55 in (5.6 x 16.7 x 1.4 cm)

Weight 0.22 lb (100 g) (maximum)

-50° to 104° F (10° to 40° C) **Temperature** Operating

> -4° to 140° F (-20° to 60° C) Non-operating

Humidity Operating 10 to 90% Non-operating 5 to 95%

Altitude Operating 0 to 10,000 ft (3,048 m) 0 to 30,000 ft (9,144 m) Non-operating



TechSpecs

Plug and Play USB 1.1 compliant

Microsoft Windows Plug and Play compliant

Frequency Band 2,4000 to 2.4835 GHz **Number of Available** 79 (1 MHz) available

Channels channels **Data Rates and** 1 Mbps

throughput Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Asynchronous Connection Less links 723.2 kbps/57.6 kbps asymmetric

or 433.9 kbps symmetric

Antenna type Internally integrated within module (with special polarization diversity)

Range 328 ft (100 m)

Profile Support General Access Profile

Service Discovery Application Profile

Serial Port Profile

Generic Object Exchange Profile

File Transfer Profile Synchronization Profile Dial-Up Networking

Usage Models Service Discovery (determine what Bluetooth devices are within range

and support authorization)

Synchronization: PDAs to PCs Portable to Desktop

File Transfer:

File and directory browsing and navigation on another Bluetooth device.

File copying

Object manipulation – including add, delete, create new folders etc. Wireless link to Corporate LAN using several Bluetooth devices sharing

the same

Access Point:

Corporate email, network neighborhood, access to LAN applications,

file transfer, ftp, Internet browsing, etc, using TCP/IP

Wireless link to WAN thru cell phone

GSM/SMS, PCS, PHS, DECT, RAM, ARDIS, CDPD, etc.

Agnostic to WAN technology Send/receive SMS messages Wireless link to Printer

Adhoc peer to peer networking (two computers) or Personal Area

Networking (PAN) using NDIS

(< 7 computers)

Adhoc Bluetooth Pico-networking (point to multi-point) Object Push – Business card or appointment exchange

Transmit Power < 20 dBM (Bluetooth Class 1)

Receive Sensitivity Better than -70 dBM at 0.1 % raw bit error rate **Link Topology** Point to Point, Multipoint Pico Nets up to 7 slaves Security Full support of Bluetooth Security Provisions

Ad-hoc (Peer to Peer)

Network Architecture

Models

< 1500 mW **Power Requirement** Peak

> Average < 500 mW Standby < 250 mW



TechSpecs

Power Management Microsoft Windows ACPI, and USB Bus Support

Keystrokes Fn+F2 Power On/Off control

Self configurable to optimize power conservation in all operating

modes, including Standby, Hold, Park, and Sniff

OS Support Microsoft Windows 2000

Microsoft Windows XP Home

Microsoft Windows XP Pro

Protocols Supported TCP/IP

IPX/SPX UDP

LED Activity Solid Blue LED – On

LED Off - Power Off

Certifications All necessary regulatory approvals for countries we support including:

FCC (47 CFR) Part 15C, Section 15.247 & 15.249

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark

Type III Mini PCI 56K (V.92) Modem

Form Factor Mini-PCI Type III per Specification

Power Management

Support

APM Revision 1.2, ACPI, Compaq Power Management Extensions for

Microsoft Windows NT®

Approvals/ Certifications UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian

ACA, CE Mark, Other Countries

Data Mode Capabilities V.92 (a-law, mu-law)

K56flex (a-law, mu-law)

V.8bis V.80

V44.bis, MNP5 (Compression) V42.bis, MNP5 (Compression)

V.42 (LAPM, MNP2-4) (Error Correction)

V.34 (file date: 10/96)

Optional symbol rates:

2800, 3429

2000, 3423

Asymmetric Symbol rates

Synchronous primary channel data signaling rates:

3600, 31200

Automatic rate re-negotiation

V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J

Fax Mode Capabilities TIA-578-S (Class 1)

T.30, T.4 (Group 3)

V.17 V.29 V.27ter

V.21 Channel 2

Command Set V.250 (Partial)

TIA-602



TechSpecs

Identification: + GMI, + GMM, + GMR Port control: + IPR, + ICF, + IFC, + ILRR

Modulation: + MS, + MR, + MA

Error control: + ES, + ER, + EB, + ESR, + ETBM

Data compression: + DS, + DR

V.251

Integrated 10/100 NIC NIC Device Driver

Name

Data Link Layers

Ethernet Features

RealTek (RTL 8139CL+)

IEEE 802.2 LLC

SNAP

10 Mbps Ethernet: IEEE 802.3 standard 10BASE-T 100 Mbps Ethernet: IEEE 802.3u standard 100BASE-TX

Full Duplex at 10 and 100Mbps

Auto-Negotiation

Wake on LAN from standby Boot on LAN from OFF

Lower Power State on Link Loss

Software support IBM LAN Server Version 1.2, 1.3, 2.0, 4.0

Microsoft NT 3.51, NT 4.0. Microsoft Windows 2000

Novell Netware 3.1x, 4.x, 5.x

Protocol support TCP/IP

Novell IPX/SPX and Microsoft compatible

Novel IPX ODI Microsoft NetBEUI

IBM DLC

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