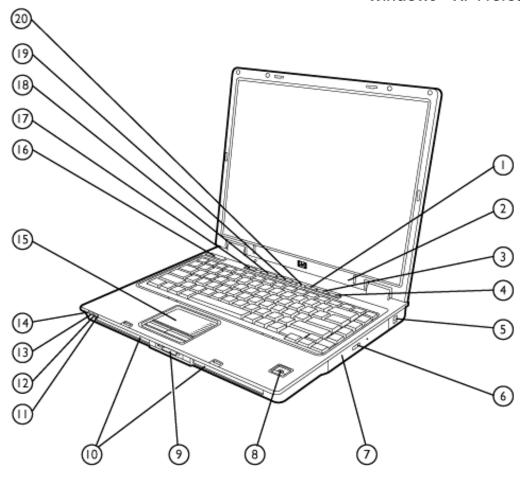
Overview

HP Compaq nx6125 Notebook PC

HP recommends Microsoft® Windows® XP Professional

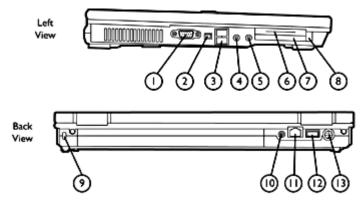


- 1. Volume Mute Button with LED
- 2. Internal Microphone
- 3. Volume Down Button
- 4. Volume Up Button
- 5. RJ-11 Port (Modem)
- 6. Optical Drive Button
- 7. Optical Drive
- 8. HP Biometric Fingerprint Sensor
- 9. 6-in-1 Media Reader with LED
- 10. Stereo Speakers

- 11. Hard Drive Activity LED
- 12. Battery Charging LED
- 13. Power/Standby LED
- 14. Wireless On/Off LED
- 15. Touchpad with Scroll Zone
- 16. Power/Standby Button with LED
- 17. HP Info Center Button
- 18. Wireless On/Off Button with LED
- 19. Presentation Mode Button
- 20. Caps Lock LED and Num Lock LED



Overview



- 1. VGA/External Monitor Port
- 2. IEEE 1394 Port
- 3. 2 USB 2.0 Ports
- 4. Microphone Jack
- 5. Headphone Jack
- 6. ExpressCard/54 Slot

- 7. PC Card Slot or Integrated Smart Card Reader
- 8. PC Card Eject Button
- 9. Kensington Lock Slot
- 10. DC Power Connector
- 11. RJ-45 Port (NIC) with 2 LEDs
- 12. USB 2.0 Port
- 13. S-Video TV Out

At A Glance

- Microsoft Windows XP Professional, Microsoft Windows XP Home Edition (select countries), or FreeDOS
- AMD Turion[™] 64 Mobile Technology or Mobile AMD Sempron[™] processor
- Sleek industrial design starting at 5.99 lb/2.72 kg and 1.22-inch/31.0 mm thin at front
- ATI RADEON XPRESS 200M Chipset
- 256-MB DDR SDRAM, upgradeable to 2048-MB maximum
- Up to 80-GB 5400 rpm hard drive
- Choice of optical drive: CD-ROM, DVD-ROM, DVD/CD-RW Combo, DVD+/-RW, or DVD+/-RW with Double Layer Technology
- Integrated ATI MOBILITY RADEON X300 with up to 128-MB allocated system memory
- Optional Integrated 802.11a/b/g or 802.11b/g wireless LAN module
- Optional integrated Bluetooth®
- 6-in-1 Media Reader
- NetXtreme Gigabit Ethernet Controller
- Touchpad with scroll zone
- Protected by one-year or three-year (depending on country and/or model) standard parts and labor warranty - certain restrictions and exclusions apply

What's Special

- Security features:
 - HP ProtectTools
 - o Integrated HP Biometric Fingerprint Sensor
 - o HP Drivelock
 - o Smart Card Reader (optional)
 - o Kensington lock slot
- Ease of use features
 - o HP Mobile Print Driver for on-the-go printing



Overview

- o HP Wireless Assistant
- o HP Info Center
- o HP Fast Charge technology
- Integrated reliability features:
 - o HP Panel Protection System
 - o Scratch-resistant keyboard using In-mold Lamination
 - o HP spill-resistant keyboard with Mylar film
- Support for new HP docking solutions and HP Travel Battery.



Standard Features

Processors*	AMD Turion 64 Mobile	Technology MI -40	(2.2-GHz	1-MB12 cache)
110003013	7 TIVID TUTION OF TWO SHE	TOOLING ON THE TO	(2.2 0112	, I IVID LE CACITO)

AMD Turion 64 Mobile Technology ML-37 (2.0-GHz, 1-MB L2 cache)

AMD Turion 64 Mobile Technology ML-34 (1.8-GHz, 1-MB L2 cache)

AMD Turion 64 Mobile Technology ML-32 (1.8-GHz, 512-KB L2 cache)

AMD Turion 64 Mobile Technology ML-30 (1.6-GHz, 1-MB L2 cache)

AMD Turion 64 Mobile Technology ML-28 (1.6-GHz, 512-KB L2 cache)

Mobile AMD Sempron processor 3100+ (1.8-GHz, 256-KB L2 cache)

Mobile AMD Sempron processor 3000+ (1.8-GHz, 128-KB L2 cache)

Mobile AMD Sempron processor 2800+ (1.6-GHz, 256-KB L2 cache)

*NOTE: Speeds listed for AMD Turion™ 64 Mobile Technology processors are maximum performance levels on AC power. The processor speed is reduced up to

approximately 80% on battery power to optimize battery life. Please go to

<www.hp.com> for more details on battery life conservation.

Operating System

Microsoft Windows XP Professional SP2

Microsoft Windows XP Home Edition SP2 (select countries only)

FreeDOS

NOTE: Microsoft Windows 2000 Professional is not available pre-installed, but drivers for it

are downloadable from http://www.hp.com.

Chipset ATI RADEON XPRESS 200M Chipset

Graphics Integrated ATI MOBILITY RADEON X300 with up to 128-MB allocated system memory

Display Internal 15.0-inch TFT SXGA+ wide viewing angle (1400 x 1050 resolution

and 16 M colors)

15.0-inch TFT XGA (1024 x 768 resolution and 16 M colors)

External Up to 32-bit per pixel color depth

Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, or 1600 x 1200 resolutions up to 100-Hz refresh rate, dependent upon monitor capability, and resolution and color depth

settings

Memory Standard 256-MB, 512-MB, or 1024-MB 333-MHz DDR SDRAM; two SODIMM

SIOLS

Maximum Upgradeable to 2048-MB maximum (1024-MB SODIMM in slots 1

and 2)

NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

Communications

NetXtreme Gigabit Ethernet Controller (10/100/1000 NIC)*

56K modem** with digital line guard

* The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard



Standard Features

802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

** Designed for downloads from 56K modem compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem availability is subject to country regulatory approval.

Wireless Devices

Support for a broad range of secure, integrated wireless LAN options. Integrated Bluetooth is also an option (factory configurable only) and can be combined with any one of the supported wireless LAN options.

All integrated wireless Wi-Fi certified

LAN options Cisco Compatible Extensions support

Wired Equivalent Privacy (WEP) support up to 128-bit keys

Wi-Fi Protected Access (WPA) support

802.1x authentication support, including EAP-TLS, EAP-TTLS,

PEAP-GTC, PEAP-MSCHAPv2, and LEAP

Dual antennas integrated in the display enclosure

Broadcom 802.11b/g

WLAN

Integrated support for 802.11 b and g

Up to 54-mbps data rate

Broadcom Integrated support for 802.11a, b and g

802.11a/b/g WLAN Up to 54-mbps data rate

Advanced Encryption Standard (AES) support

Advanced Encryption Standard (AES) support

Integrated Bluetooth Bluetooth Specification v1.2 compliant

Works with a wide range of Bluetooth devices

Keyboard

The 101/102-key compatible keyboard features an industry standard, full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. US and International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19-mm x 19-mm key pitch (center-to-center spacing), 2.5-mm stroke, comfort-dished keycaps, and bright key legends for improved visibility in low light conditions.

One-Touch Productivity Buttons

Provide one-touch access to the following features: HP Info Center, Wireless On/Off, Presentation Mode, Volume Up, Volume Down, and Volume Mute

Pointing Device

Touchpad with scroll zone

Expansion Card Slots

One Type I/II PC Card Supports 32-bit CardBus and 16-bit PC Cards

Slot

or

Optional Integrated Smart Card Reader Compatible with ISO 7816 compliant Smart Cards

PC/SC interface support

One ExpressCard/54

Supports 34mm and 54mm ExpressCards

slot



Standard Features

Media Slots 6-in-1 Media Reader Supports SD (Secure Digital), MMC (MultiMediaCard), Memory

Stick, Memory Stick Pro, Smart Media, xD-Picture card

CAUTION: This notebook PC does not support Memory Stick Duo Cards or Memory Stick Duo Adapters. Inserting one of these cards or adapters into your notebook can damage the memory card or adapter and/or the notebook PC.

Storage Hard Drives 40-, 60-, 80-GB 4200 rpm SMART

40-, 60-, 80-GB 5400 rpm SMART

NOTE: These hard drives are customer removable and will withstand multiple

insertion/removal cycles.

Optical Drives Integrated (12.7-mm) CD-ROM

DVD-ROM

DVD/CD-RW Combo

DVD+/-RW

DVD+/-RW with Double Layer

80-GB 5400 rpm MultiBay II Hard Drive

Technology

Optional HP External DVD-ROM MultiBay II Drive

MultiBay II (9.5-mm) or DVD/CD-RW Combo MultiBay II Drive

HP Advanced DVD+/-RW MultiBay II Drive

Docking Station

Second Hard Drive Optional HP External

MultiBay II (9.5-mm) or

HP Advanced Docking Station

Interfaces PC Card Slot One – Type I/II

or

Optional Integrated Smart Card Reader

ExpressCard/54 slot One

External Monitor One – VGA

IEEE 1394 Port One
External Microphone One
Headphone/Line out One
Power Connector One
RJ-11 (Modem) One
RJ-45 (NIC) One

S-Video TV Out One (Support for NTSC/PAL)

USB 2.0 Three Travel Battery One

Connector

LED Status Indicators Twelve

Audio Conexant AC '97 CODEC



Standard Features

Integrated 16-bit Sound Blaster Pro compatible audio

Integrated microphone Integrated stereo speakers

External volume up, volume down, and mute buttons

Stereo headphone/line out Stereo microphone in

Software

Preloaded Software for Adobe Acrobat Reader

Microsoft Windows XP HP Local Recovery provided by Altiris*

HP One-Touch Button Software

HP Mobile Print Driver Synaptics Touchpad Driver HP Help and Support

HP ProtectTools Security Manager:
BIOS Configuration for HP ProtectTools
Credential Manager for HP ProtectTools

HP Wireless Assistant

Sonic RecordNow! (for optional DVD+/-RW and DVD/CDRW

drives)*

Symantec Norton Antivirus with complimentary 60-day live

update

Intervideo WinDVD - DVD Player (for optional DVD+/-RW,

DVD/CDRW and DVD drives)*

Software on CD Intervideo WinDVD Creator – DVD Authoring (for optional

DVD+/-RW drives)

Additional software available from the

Web

HP ProtectTools Security Manager:
Smart Card Security for HP ProtectTools

System Recovery for Microsoft Windows XP systems only

Each unit is shipped with a recovery kit containing Operating System Recovery and Driver/Application Recovery discs. These discs allow users to either recover or repair the notebook operating system and select drivers without losing personal data. The Operating System disc also provides the option of reinstalling the operating system software provided with the notebook.

SMBIOS Version 2.3.4

System Management BIOS, previously known as DMI BIOS, is used to store system management information.

HP Local Recovery Provided by Altiris

Provides data and system file protection for HP business PCs to enable fast recovery of information that is accidentally deleted or if the system becomes corrupted. Designed for disconnected or seldom-connected users, Local Recovery protects your HP computer's data and system state by taking scheduled snapshots, which are then stored in a protected area on the local hard disk. System backup and disaster



^{*} Software is loaded on the hard drive and must be installed by running the Software Setup utility.

Standard Features

recovery is now simple and fast for all users, regardless of connectivity. For more information and to download, please refer to the HP website at http://www.hp.com/go/easydeploy.

HP ProtectTools Security Manager

HP ProtectTools Security Manager is the security platform for business notebooks and desktops. The HP ProtectTools Security Manager is an extensible client security console that delivers enhanced security capabilities through add-on software modules. Modules currently available are:

- Smart Card Security for HP ProtectTools
- BIOS Configuration for HP ProtectTools
- Credential Manager for HP ProtectTools

Security Standard Features Configuration Control Hardware

Memory Change Alert Ownership Tag

Setup Password Power-On Password

Integrated HP Biometric Fingerprint Sensor

HP Drivelock

Enabled for PC Smart Card options

Kensington Lock Slot

Optional Features Smart Card Reader Compatible with ISO 7816 compliant

(replaces Type I/II PC Smart Cards

Card slot) PC/SC interface support

For more information on HP security solutions refer to http://www.hp.com/go/security.

Power Supply External 65-watt slim AC adapter, 6-foot (1.8-meter) power cord included.

Total length including External AC adapter is 12 feet (3.66 meter).

HP Fast Charge technology

Battery Primary Battery 6-cell high capacity Lithium-Ion (52Wh)

Optional Travel Battery 8-cell high capacity Lithium-Ion (52Wh)

Battery LifePrimary Battery
Up to 3 hours 45 minutes
Primary Battery and
Up to 7 hours 30 minutes

Primary Battery and optional HP Travel

Battery

NOTE: Battery life will vary depending on the product configuration, product model, applications loaded on the product, power management settings of the product, and the product features used by the customer. As with all batteries, the maximum capacity

of this battery will decrease with time and usage.

System Standby Time Up to 1 week

Power Conservation Hibernation

Standby



Standard Features

ACPI compliance

Docking

HP Docking Station

HP Advanced Docking Station HP Adjustable Notebook Stand

HP's shared docking solutions provide simple and convenient port replication and cable management. Features include Gigabit NIC pass through, modem pass through, legacy parallel and serial ports, S-video TV out, USB 2.0 ports, integrated security mechanism*, integrated MultiBay II and ExpressCard** slots. These docking solutions are compatible across multiple Business Notebook platforms enabling a lower total cost of ownership.

* HP/Kensington Cable Lock required (purchased separately)

** HP Advanced Docking Station only

Service and Support

HP Services includes a one-year or three-year (depending on country and/or model) standard parts and labor warranty, pick-up or carry-in, and toll-free 7 x 24 hardware technical phone support. On-site service and warranty upgrades are also available.

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

 $\underline{http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp}.$



Options		
Memory	256-MB 333-MHz DDR SDRAM	DC389B
	512-MB 333-MHz DDR SDRAM	PA525A
	1024-MB 333-MHz DDR SDRAM	DC890B
MultiBay II Storage	8X DVD-ROM MultiBay II Drive	PA849A
(9.5 mm)	24X Combo DVD/CD-RW MultiBay II Drive	PA850A
	4X DVD+/-RW Dual Format MultiBay II Drive	PA851A
	80-GB 5400 rpm MultiBay II Hard Drive	PH357A
Storage	USB Diskette Drive	DC361B
	HP USB Digital Drive + 128-MB Secure Digital Card	DL702A
	HP 40-GB Mobile USB Hard Drive	DQ549A
Expansion Solutions	HP Docking Station	PA286A#xxx
	HP Advanced Docking Station	PA287A#xxx
	HP External USB MultiBay II	PA509A#xxx
	HP Monitor Stand	PA507A
	HP Adjustable Notebook Stand	PA508A
	HP 4-port USB 2.0 Hub	DG954A
Power	65W AC Adapter	DC359A#xxx
	90W AC Adapter	DC895B#xxx
	90W Auto Adapter	DC303B
	90W Air/Auto/AC Combo Adapter	DV574A#xxx
	90W Aircraft Cables	DC899A
	Primary 6-cell Battery Pack	PB994A
	HP Travel Battery	PB993A
Carrying Cases	HP Entry Value Case	DL617A
	HP Top Load Nylon	DC915A
	HP Executive Leather case	PA847A
	HP Sport Backpack	DG102A
Security	PC Card Smart Card Reader	DC350B
	HP/Kensington Cable Lock	PC766A
Input/Output Devices	USB/PS2 Keyboard	DC852A#xxx
	USB/PS2 Optical Mouse	DC369A
	HP USB Optical Travel Mouse	F2100A



Memory

Up to 2048 MB of 333-MHz DDR SDRAM

Two DIMM slots

DIMM sizes supported: 256 MB, 512 MB, or 1024 MB

Standard Memory

- 256 MB (256 MB x 1)
- 512 MB (512 MB x 1 or 256 MB x 2)
- 1024 MB (1024 MB x 1 or 512 MB x 2)

Optional Memory Upgrades

Support for up to 2048 MB of memory is available (with the installation of optional DDR SDRAM memory kits). Both memory slots are user accessible. Please refer to the Hardware and Software Guide for installation procedures.

Up to	Slot 1	Slot 2
768 MB	512 MB	256 MB
1024 MB	1024 MB	Empty
1024 MB	512 MB	512 MB
1280 MB	1024 MB	256 MB
1536 MB	1024 MB	512 MB
2048 MB	1024 MB	1024 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 HP branded memory modules to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

Memory Upgrades

 1024-MB 333-MHz DDR SDRAM
 DC890B

 512-MB 333-MHz DDR SDRAM
 DC390B

 256-MB 333-MHz DDR SDRAM
 DC389B



Storage

Removable Media Drive Support

	Quantity Supported	Drive Bay
DVD+/-RW Drive with Double Layer Technology	One	Fixed optical drive bay
DVD+/-RW Drive	One	Fixed optical drive bay
DVD/CD-RW Combo Drive	One	Fixed optical drive bay
DVD-ROM Drive	One	Fixed optical drive bay
CD-ROM Drive	One	Fixed optical drive bay
DVD+/-RW MultiBay II Drive	One	Optional HP External MultiBay II or HP Advanced Docking Station
DVD/CD-RW Combo MultiBay II Drive	One	Optional HP External MultiBay II or HP Advanced Docking Station
DVD-ROM MultiBay II Drive	One	Optional HP External MultiBay II or HP Advanced Docking Station

Hard Drive Support

	Quantity Supported	Drive Bay
80-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay
60-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay
40-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay
80-GB 4200 rpm SMART Hard Drive	One	Dedicated hard drive bay
60-GB 4200 rpm SMART Hard Drive	One	Dedicated hard drive bay
40-GB 4200 rpm SMART Hard Drive	One	Dedicated hard drive bay



Technical Specifications

System Unit Dimensions (HxWxD) 1.22 (at front) x 12.9 x 10.5 in (31 (at front) x 328 x 267 mm)

Weight 5.99 lb (2.72 kg)

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 6-cell battery, 30-GB hard drive, 256-MB memory, and CD-ROM drive. Weight varies by configuration and components.

Stand-Alone Power Nominal Operating 18.5 V Requirements Voltage

Average Operating 21 W

Power

Max Operating Power < 65W

Temperature Operating 32° to 95° F (0° to 35° C) (not writing

optical)

41° to 95° F (5° to 35° C) (writing optical)

Relative Humidity Operating 10% to 90%, non-condensing

Non-operating 5% to 95%, 101.6° F (38.7° C) maximum

wet bulb temperature

-4° to 140° F (-20° to 60° C)

Shock Operating 125 G, 2 ms, half-sine

Non-operating

Non-operating 200 G, 2 ms, half-sine

Random Vibration Operating 0.75 grms
Non-operating 1.50 grms

Non-operating 1.50 grms

 Altitude
 Operating
 -50 to 10,000 ft (-15.24 to 3,048 m)

 (unpressurized)
 Non-operating
 -50 to 40,000 ft (-15.24 to 12,192 m)

Industry StandardBlue AngelNoCertificationsULYesEnergy StarYes

Canadian Safety Yes CSA (Canada) Yes **ICES** Yes **TUV GS** No Nordic Safety No Mexican Safety Yes **Poland Compliance** Yes Australia / NZ Yes

Compliance

CCC Yes
Japan Compliance Yes
MIC Yes
BSMI Yes
CE Marking Yes
Compliance

KONCAR Yes GOST Yes



Technical Specifications

SASO Yes
SABS Yes
UKRSERTCOMPUTER Yes

65W External AC Adapter

Weight 0.62 lb (0.28 kg) (adapter)

0.29 lb (0.13 kg) (power cord)

Dimensions 4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm) **Input** Operating Input 100 to 240 VAC

Voltage

Operating Input 1.7A at 90 VAC Current 0.85A at 180 VAC Operating Frequency 47 to 63 Hz AC

Range

Efficiency 83% minimum at 115 VAC

Output Output Power 65 W

DC Output Current 18.5 V

Environmental Operating 32° to 104° F (0° to 40° C)

Temperature

Non-operating -4° to 149° F (-20° to 65° C)

(storage) Temperature

Altitude 0 to 10,000 ft (0 to 3,048 m)

Humidity 20% to 80% Storage Humidity 10% to 90%

EMI and Safety Certifications CE Mark: full compliance with LVD and EMC directives Worldwide safety standards: IEC950, EN60950, UL1950, Class2,

SELV Agency approvals: C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCIB, NOM-1 NYCE

MTBF Over 200,000 hours at 25°C ambient condition

52Wh Primary Lithium-Ion Battery Pack

52Wh Primary Lithium- Dimensions (H x W x L) 0.8 x 2.1 x 8.0 in (2.0 x 5.3 x 20.3c m)

Weight 0.681 lb (0.315 kg)
Cells/Type 6-cell Lithium-Ion

Energy Voltage 10.8 V

Amp-hour Capacity 4.8Ah Watt-hour Capacity 52Wh

System in OFF Mode or 2.5 hours

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating 14° to 140° F (-10° to 60° C)

(Discharging)

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

Battery Re-Charge

Time Standby

System ON 3 to 5 hours (depending on system

power consumption)



Technical Specifications

HP Fast Charge Technology

Charges the battery up to 90% within 1.5

hours when system is OFF

Optional 52Wh Travel

Dimensions (H x W x L) 1.0 x 3.9 x 8.7 in (2.5 x 10.0 x 22.0 cm)

Battery

Weight 1.00 lb (0.455 kg) Cells/Type 8-cell Lithium-Ion

Energy

Voltage 14.4 V

Amp-hour Capacity 3.6Ah Watt-hour Capacity 52Wh

Temperature

Operating (Charging) 32° to 113° F (0° to 45° C)

14° to 140° F (-10° to 60° C)

Operating (Discharging)

Non-operating

-4° to 140° F (-20° to 60° C)

Battery Re-Charge

Time

System in OFF mode

3 hours

or Standby

System ON

3 to 5 hours (depending on system

power consumption)

Fuel Gauge

When pressed, LEDs light indicating level of charge remaining

on battery

15.0-Inch Color TFT **XGA Display**

Active Area (W x H)

12.0 x 9.0 in (30.4 x 22.8 cm)

Diagonal Size

15.0 in (38.0 cm)

Surface Treatment Number of Colors

Anti-glare Up to 16 M

Contrast Ratio

250:1 (typical)

Refresh Rate

60 Hz

Brightness

150 nit (typical)

Pixel Resolution

0.297 mm Pitch 1024 x 768

Format Configuration

RGB Stripe

Backlight PPI

CCFL 85

Character Display

80 x 25

Total Power Consumption

5.7 W

Viewing Angle

±45° Horizontal, +15°/-35° Vertical (typical)

15.0-Inch Color TFT **SXGA+ Wide Viewing Angle Display**

Active Area (W x H)

12.0 x 9.0 in (30.4 x 22.8 cm)

Diagonal Size Surface Treatment 15.0 in (38.0 cm) Anti-glare

Number of Colors Contrast Ratio

Up to 16 M 300:1 (typical)

Refresh Rate

60 Hz



HP Compaq nx6125 Notebook PC

QuickSpecs

Technical Specifications

Brightness 180 nit (typical)

Pixel Resolution Pitch 0.217 mm

Format 1400 x 1050

Configuration RGB Stripe

BacklightCCFLPPI116Character Display80 x 25Total Power5.8 W

Consumption

Viewing Angle ±60° Horizontal, +40°/-45° Vertical (typical)



Technical Specifications

Hard Drives

80-GB 5400 rpm	Drive Weight	0.22 lb (99 g)	
	Capacity	80 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-6	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time	Single Track	3 ms
	(typical reads,	Average	13 ms
	including settling)	Maximum	24 ms
	Rotational Speed	5400 rpm	
	Logical Blocks	156,301,488	
	Operating	41° to 131° F (5° to	55° C)
	Temperature		
	Features	ATA Security	
60-GB 5400 rpm	Drive Weight	0.22 lb (99 g)	
	Capacity	60 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-6	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time	Single Track	3 ms
	(typical reads, including settling)	Average	13 ms
		Maximum	24 ms
	Rotational Speed	5400 rpm	
	Logical Blocks	117,210,240	
	Operating	41° to 131° F (5° to	55° C)
	Temperature	·	
	Features	ATA Security	
40-GB 5400 rpm	Drive Weight	0.22 lb (99 g)	
·	Capacity	40 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-6	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time	Single Track	3 ms
	(typical reads,	Average	13 ms
		-	



Technical	Specific	ations
10011111001	OPCOM	Janons

including settling) Maximum 24 ms

Rotational Speed 5400 rpm **Logical Blocks** 78,140,160

Operating 41° to 131° F (5° to 55° C)

Temperature

Features ATA Security

80-GB 4200 rpm Drive Weight 0.22 lb (99 g)

Capacity 80 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-6

Transfer Rate Synchronous 100 MB/s (Drive Capability)

(maximum)

Seek TimeSingle Track3 ms(typical reads,
including settling)Average13 msMaximum24 ms

Rotational Speed 4200 rpm **Logical Blocks** 156,301,488

Operating 41° to 131° F (5° to 55° C)

Temperature

Features ATA Security

60-GB 4200 rpm Drive Weight 0.22 lb (99 g)

Capacity 60 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-6

Transfer Rate Synchronous 100 MB/s (Drive Capability)

(maximum)

Seek TimeSingle Track3 ms(typical reads,
including settling)Average13 msMaximum24 ms

Rotational Speed 4200 rpm **Logical Blocks** 117,210,240

Operating 41° to 131° F (5° to 55° C)

Temperature

Features ATA Security

40-GB 4200 rpm Drive Weight 0.22 lb (99 g)

Capacity 40 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)



Technical Specifications

Interface ATA-6

Transfer Rate Synchronous 100 MB/s (Drive Capability)

(maximum)

Seek Time Single Track 3 ms (typical reads, Average 13 ms including settling) 24 ms Maximum

Rotational Speed 4200 rpm **Logical Blocks** 78,140,160

41° to 131° F (5° to 55° C) Operating

Temperature

Features ATA Security

Removable Storage Drives - Fixed Bay

CD-ROM Drive Access Times Random <110 ms CD

Max Data Transfer

Rate

Transfer Mode Multiword DMA Mode 2

24X CD-ROM

EIDE Interface

Supported Media

(read)

CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW),

3,600 KB/s

CD-R, CD-RW

Supported Media

(write)

None

Max Media Capacity

(read)

700 MB

Transport

Tray Loading

DVD-ROM Drive Access Times Random <100 ms CD

<125 ms DVD

Max Data Transfer

Rate

24X-CD-ROM 3,600 KB/s

8X-DVD 10,800 KB/s

Transfer Mode Multiword DMA Mode 2

Interface **EIDE**

Supported Media

(read)

CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW),

CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18),

DVD-R, DVD-RW, DVD+R, DVD+RW

Supported Media

(write)

None

Max Media Capacity 4.7 GB

(read)

Transport Tray Loading



Technical Specifications

DVD/CD-RW Combo Drive	Access Times	Random	<110 ms CD	
			<130 ms DVD	
	Max Data Transfer	24X CD-ROM	3,600 KB/s	
	Rate	8X DVD	10,800 KB/s	
		24X CD-R	3,600 KB/s	
		24X CD-RW	3,600 KB/s	
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
	Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW		
	Supported Media (write)	CD-R, CD-RW		
	Max Media Capacity (read)	4.7 GB		
	Max Media Capacity (write)	700 MB		
	Transport	Tray loading		
DVD+/-RW Drive	Access Times	Random	<175 ms CD <230 ms DVD	
	Max Data Transfer	24X CD-ROM	3,600 KB/s	
	Rate	8X DVD	10,800 KB/s	
		16X CD-R	2,400 KB/s	
		10X CD-RW	1,500 KB/s	
		4X DVD+R	5,400 KB/s	
		4X DVD+RW	5,400 KB/s	
		4X DVD-R	5,400 KB/s	
		2X DVD-RW	2,700 KB/s	
	Transfer Mode			
	Interface	Multiword DMA Mode 2		
		EIDE		
	Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW		
	Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW		
	Max Media Capacity (read)	4.7 GB		
	Max Media Capacity (write)	4.7 GB		



Technical S	Specifications
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	Transport	Tray Loading		
DVD+/-RW Drive with	Access Times	Random	<175 ms CD	
Double Layer			<230 ms DVD	
Technology	Max Data Transfer	24X CD-ROM	3,600 KB/s	
	Rate	8X DVD	10,800 KB/s	
		24X CD-R	3,600 KB/s	
		10X CD-RW	1,500 KB/s	
		8X DVD+R	10,800 KB/s	
		4X DVD+RW	5,400 KB/s	
		4X DVD-R	5,400 KB/s	
		2X DVD-RW	2,700 KB/s	
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
	Supported Media (read)	MIXED MODE CD, Multisession CD (P	CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, CD-I, CD-I Bridge (Photo-CD, Video CD), Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), D-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD+R, DVD+RW	
	Supported Media (write)	CD-R, CD-RW, DV	D+R, DVD+RW, DVD-R, DVD-RW	
	Max Media Capacity (read)	8.5 GB		
	Max Media Capacity (write)	4.7 GB		
	Transport	Tray Loading		
Audio				
Hardwaro	Implementation	Conovant AC '07	CODEC	

Hardware	Implementation Volume Controls Full Duplex	Conexant AC '97 CODEC Up, down, and mute buttons Yes
	Sound Blaster Pro compatible	Yes
	Microphone Jack	Stereo or mono
	Headphone/Line Out	Stereo

Frequency Response **Audio Output Quality** 20 Hz - 20 kHz

Jack

Signal to Noise Ratio >85 dB **Total Harmonic** 0.01% Distortion

Noise Floor -110 dB Play/Record Sampling 7 kHz - 48 kHz



Technical Specifications

Rate(s)

AD/DA Resolution 16 bit

Internal Speakers

Power Rating 2 Watts **Impedance** 4 Ohms

Communications

Integrated Broadcom Ethernet Features

NetXtreme Gigabit PCI

Express Ethernet Controller

(10/100/1000 NIC)

10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-

14)

100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses

1000 Mbit/s operation (1000BASE-T; IEEE 802.3z and 802.3ab; IEEE

802.3 clauses 34-42)

Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10

and 100 Mbit/s

IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

Power Management ACPI 1.1a compliant -- multiple power modes

Situation-sensitive features reduce power consumption

NIC Battery Saving Mode (enabled by default)

Performance Features TCP/IP/UDP Checksum Offload (configurable)

Microsoft Large Send Offload (configurable)

TCP Segmentation Offload

CPU Task Offload Adaptive Interrupts

Manageability Wake-on-LAN from all Power-Managed States (configurable;

Magic Packet and Microsoft Wake-Up Frame)

PXE 2.0 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB

(802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Cable Analyzer

NIC Device Driver

Power Management

Name

Broadcom NetXtreme Gigabit Ethernet

Drivers Available Microsoft Windows XP

Microsoft Windows 2000

Agere Systems AC'97 Form Factor

Modem

MDC Daughtercard

Support

Approvals/ Certifications APM Revision 1.2, ACPI

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 56K modem (a-law, mu-law)

Capabilities V.8bis



Technical Specifications

V.80

V44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction)

V.34 (file date: 10/96)

Optional symbol rates:

2800, 3429

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/EIA-578-B (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

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

Broadcom 802.11b/g WLAN

Wireless LAN Standards

Interoperability

IEEE 802.11b IEEE 802.11g Wi-Fi certified

Cisco Compatible Extensions Program compliant (details at www.hp.com/go/notebooks/WLAN)

Frequency Band 2.4 GHz

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM

Security¹ Supports 64- and 128-bit WEP, WPA, WPA2, hardware-

accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS,

PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.

Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco



Technical Specifications

Compatible Extensions Program).

Sub-channels Multinational support with frequency bands and channels

compliant to local regulations.

Media Access

Protocol

CSMA/CA (Collision Avoidance) with ACK

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points.

Output Power (for

CKK)²

17.5 dBm +/- 1.5 dB

Output Power (for OFDM; power varies

by data rate)2

13.5 dBm +/- 1.5 dB

Power Consumption Transmit: 2.0 W (max) Receive: 1.5 W (max)

Idle mode: 248 mW (nominal)

Sleep mode: 20 mW (max)

Power Management ACPI compliant power management

802.11 Compliant Power Saving Mode

Receiver Sensitivity³ 54 Mbps: -72 dBm,1 Mbps: -94 dBm

Antenna type High efficiency dual band antenna with polarization diversity,

mounted in the display enclosure

Range 802.11 b - Typical 1200 feet - Outdoor Open Area

(@1 Mbps) 300 feet – Indoor, Office environment

802.11 g – Typical 1200 feet – Outdoor Open Area

(@1 Mbps) 300 feet – Indoor, Office environment

Form Factor MiniPCI Type IIIB
Weight 0.026 lb (12 g)

Dimensions 0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)

Operating Voltage 3.3v

Temperature Operating 32° to 122° F (0° to 50° C)

Non-operating -14° to 158° F (-10° to 70° C)

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

Non-operating 5% to 95% (non-condensing)

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

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

Configuration Utility⁴ Choice of Configuration Utility:

 Microsoft Windows XP Wireless Network Connection Manager

 Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support)

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Technical Specifications

4. WLAN supplier's client utility is required for Cisco Compatible Extensions support. WLAN may also be compatible with certain third-party software supplicants.

Broadcom 802.11a/b/g WLAN Wireless LAN IEEE 802.11a Standards IEEE 802.11b

IEEE 802.11g

Interoperability Wi-Fi certified

Cisco Compatible Exensions Program compliant (details at www.hp.com/go/notebooks/WLAN)

Frequency Band 2.4 GHz and 5 GHz

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM

Security¹ Supports 64- and 128-bit WEP, WPA, WPA2, hardware-

accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS,

PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.

Support for Cisco Security Features (proven compatibility with

Cisco Aironet infrastructure products through the Cisco

Compatible Extensions Program).

Sub-channels Multinational support with frequency bands and channels

compliant to local regulations.

Media Access

Protocol

CSMA/CA (Collision Avoidance) with ACK

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power (for

CKK)²

17.5 dBm +/- 1.5 dB

Output Power (for OFDM; power varies

by data rate)2

13.5 dBm +/- 1.5 dB

Power Consumption Transmit: 2.0 W (max)

Receive: 1.5 W (max)

Idle mode: 248 mW (nominal) Sleep mode: 20 mW (max)

Power Management ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 802.11a - 54 Mbps: -70 dBm; 802.11g - 54 Mbps: -72 dBm, 1

Mbps: -94 dBm

Antenna type High efficiency dual band antenna with polarization diversity,

mounted in the display enclosure

Range 802.11 a – Typical 1000 feet – Outdoor Open Area

(@6 Mbps) 300 feet – Indoor, Office environment

802.11 b - Typical 1200 feet - Outdoor Open Area



Technical Specifications

(@1 Mbps) 300 feet – Indoor, Office environment

802.11 g – Typical 1200 feet – Outdoor Open Area (@1 Mbps) 300 feet – Indoor, Office environment

Form Factor MiniPCI Type IIIA
Weight 0.035 lb (16 g)

Dimensions 0.19 x 2.00 x 2.35 in (4.8 x 50.95 x 59.75 mm)

Operating Voltage 3.3v

Temperature Operating 32° to 122° F (0° to 50° C)

Non-operating -14° to 158° F (-10° to 70° C)

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

Non-operating 5% to 95% (non-condensing)

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

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

Configuration Utility⁴ Choice of Configuration Utility:

 Microsoft Windows XP Wireless Network Connection Manager

 Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support)

1. Check latest software/driver release for updates on supported security features.

2. Maximum output power may vary by country according to local regulations.

3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/q (OFDM modulation).

4. WLAN supplier's client utility is required for Cisco Compatible Extensions support. WLAN may also be compatible with certain third-party software supplicants.

Bluetooth by HP Name HP Integrated module with Bluetooth wireless technology

Bluetooth Specification 1.2 Compliant

Dimensions 1.02 x 0.55 x 0.22 in (26 x 14 x 5.7 mm)

Frequency Band 2402 to 2480 MHz

Number of available

channels

79 (1 MHz) available channels

Data Rates and 1 Mbps data rate; throughput up to 720 Kbps

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

Transmit Power -6 dBm to 4 dBm (Bluetooth Class II)

Receiver Sensitivity Better than -80 dBM at 0.1 % raw bit error rate

Power Consumption Peak (Tx) 264 mW

Peak (Rx) 231 mW

Sleep <1 mW

Antenna Internally integrated within module



Technical Specifications

Range Up 33 ft (10 m) **Electrical Interface** USB 1.1 compliant

Microsoft Windows Plug and Play compliant

OS Support Microsoft Windows XP Professional and Home

Microsoft Windows 2000

Bluetooth Software

Supported

Widcomm Bluetooth for Windows

Microsoft Windows XP Bluetooth Software

Link Topology Point to Point, Multipoint Pico Nets up to 7 slaves

Security Full support of Bluetooth Security Provisions **Power Management** Microsoft Windows ACPI, and USB Bus Support

Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff

Certifications All necessary regulatory approvals for supported countries,

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

Temperature Operating -4° to 158° F (-20° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10% to 90%

Non-operating 5% to 95%

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

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

Bluetooth Profiles

Supported

(with Bluetooth for Windows 4.0 software)

Serial Port Profile (SPP)*

Dial-Up Networking (DUN)*

Generic Object Exchange Profile (GOEP)

Object Push Profile (OPP)* File Transfer Profile (FTP)

Synchronization Profile (SYNC)

Hard Copy Cable Replacement (HCRP)*
Personal Area Networking Profile (PAN)*
Human Interface Device Profile (HID)*

FAX Profile (FAX)

Basic Imaging Profile (BIP) Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

* indicates the profile is also supported by Microsoft Windows XP SP2

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HP Compaq nx6125 Notebook PC

QuickSpecs

Technical Specifications

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