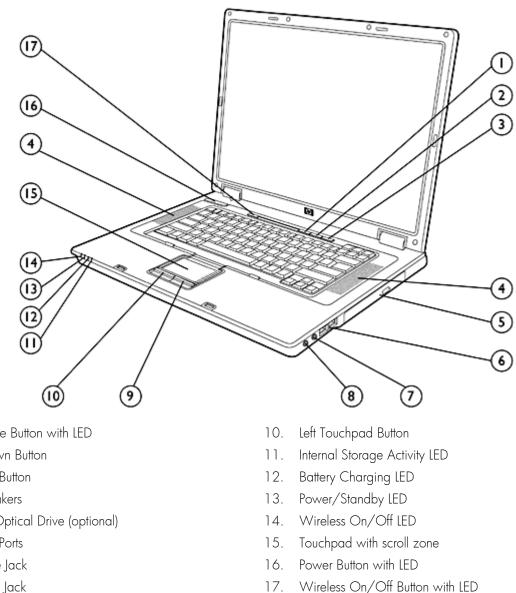
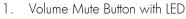
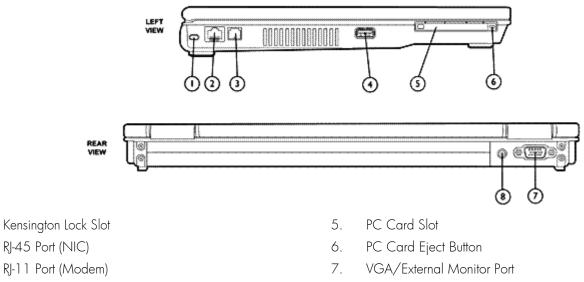
Overview





- 2. Volume Down Button
- 3. Volume Up Button
- Stereo Speakers 4.
- Integrated Optical Drive (optional) 5.
- 2 USB 2.0 Ports 6.
- Microphone Jack 7.
- Headphone Jack 8.
- 9. **Right Touchpad Button**

Overview



8.

Power Connector

4. USB 2.0 Port

1.

2.

3.

At A Glance

- Genuine Windows XP Embedded
- Sleek light-weight design starting at 5.4 lb (2.45 kg) and 1.2 inch (30 mm) thin at front
- 15.4-inch wide screen display
- Intel® Celeron® M processor
- Mobile Intel 945GM Express Chipset
- 1GB of 667 MHz DDR2 SDRAM
- Intel Graphics Media Accelerator 950
- 1 GB Flash Module
- Optional DVD-ROM Drive
- 802.11 a/b/g wireless LAN module
- Protected by a one-year standard parts and labor warranty certain restrictions and exclusions apply.



Standard Features

| Processors | Intel Celeron M Processor 423* (1.06-GHz, 1-MB L2 cache, 533-MHz FSB) * Intel's numbering is not a measurement of higher performance. NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode. | |
|------------------|--|---|
| Operating System | Preinstalled | Genuine Windows XP Embedded |
| Chipset | Mobile Intel 945GM Express Chipset | |
| Graphics | Intel Graphics Media Accelerator 950 with up to 224-MB shared system memory Microsoft DirectX 9 capable | |
| Display | Internal External | 15.4-inch WXGA display with 1280 x 800 resolution Up to 32-bit per pixel color depth VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings. |
| Memory | Standard 1024-MB 667-MHz DDR2 SDRAM SODIMM; one SODIMM slot Maximum Supports up to 2048-MB maximum NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend H branded memory to ensure compatibility. | |
| Communications | Integrated Broadcom 10/100 Ethernet PCI Controller 56K V.92 modem* with digital line guard * 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. | |



| Standard Features | | |
|-----------------------------------|---|--|
| Integrated wireless LAI | Broadcom 4311AG W Adapter | iFritegrated support for 802.11 a, b and g Up to 54-mbps data rate Wi-Fi certified for WPA2, WMM Cisco Compatible Extensions support (Version 4.0) Wired Equivalent Privacy (WEP) support up to 128-bit keys Wi-Fi Protected Access (WPA) and WPA2 support 802.1x authentication support, including EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, and LEAP Advanced Encryption Standard (AES) support s Dual antennas integrated in the display enclosure |
| 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: Wireless On/Off, Volume down, Volume up, and Volume Mute. | |
| Pointing Device | Touchpad with scroll zone and two soft-touch buttons | |
| Expansion Card Slots | One Type I/II PC CardSupports 32-bit CardBus and 16-bit PC Cards slot | |
| Internal Storage | Primary Storage 1 GB Flash Module Optional Fixed Optical DVD-ROM Drive | |



| Standard Features | | |
|--------------------|---|---|
| Interfaces | PC Card Slot External Monitor External Microphone Headphone/Line out Power Connector RJ-11 (Modem) RJ-45 (NIC) USB 2.0 Docking Connector Accessory Battery Connector LED Status Indicators | One – Type I/II One – VGA One One One One Three One One Nine |
| Audio | ADI1981HD High Definition CODEC Integrated 16-bit Sound Blaster Pro compatible audio 24-bit DAC Integrated stereo speakers External volume up, volume down, and mute buttons Stereo headphone/line out Stereo microphone in | |
| Software | Preinstalled Software Additional software | Enhanced Write Filter Altiris Deployment Client HP ThinState Tools HP Session Allocation Manager Microsoft RDP Citrix ICA HP Quick Launch Buttons TeemNT Terminal Emulation PDF Complete Intervideo WinDVD HP RGS Graphics Compression Client |
| SMBIOS Version 2.4 | | ebHP OpenView Client Configuration Manager S, previously known as DMI BIOS, is used to store system management |



| Standard Features | | | |
|---|--|---|--|
| Security | Standard Features | Configuration Control Hardware Memory Change Alert Ownership Tag Setup Password Power-On Password Kensington Lock Slot | |
| Power Supply | External 65-watt Smart 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* | | |
| *Fast Charge Technology not apply to 12-cell Ultra-(| recharges your battery up | to 90% within 90 minutes when the system is off. Fast Charge Technology does | |
| Battery | Life Battery | 6-cell (47Wh) high capacity Lithium-Ion de&cell (52Wh) high capacity Lithium-Ion JItt <i>&</i> -cell (95Wh) high capacity Lithium-Ion | |
| Battery Life | Primary Battery Up to 5 hours Primary Battery and Up to 10 hours and 45 minutes optional HP 8-Cell Extended Life Battery Primary Battery and Up to 14 hours and 30 minutes optional HP 12-Cell Ultra- Capacity Battery NOTE: The listed battery life measurements were taken on models running Microsoft Windows XP Professional. 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 th 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 | Standby | | |

ACPI compliance



| Standard Features | | | |
|--|--|---|--|
| Docking | HP Docking Station | | |
| | HP's shared docking solution provides simple and convenient port replication and cable management. Supported features include 10/100 Ethernet NIC pass through, modem pass through, legacy parallel and serial ports, USB 2.0 ports, and integrated security mechanism.* This docking solution is compatible across multiple Business Notebook platforms enabling a lower total cost of ownership. *HP/Kensington Cable Lock required (purchased separately) | | |
| Service and Support | HP Services includes a one-year standard parts and labor warranty, pick-up or carry-in, and toll-free 7 x 24 hardware technical phone support (depending on model). On-site service and warranty upgrades are also available. NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp. | | |
| Select Model(s) | | | |
| 6720t KL145AA#ABA (English) KL145AA#ABC (Fr CAN) Regional | Processor Operating System System Memory Internal Storage Display Graphics Audio Communications Integrated Wireless Pointing Device Optical Drive Battery Power Warranty | Intel Celeron M Processor 423 (1.06 GHz) Genuine Windows XP Embedded 1024MB 667MHz DDR2 SDRAM (1 DIMM) 1 GB Flash Module 15.4-inch diagonal WXGA anti-glare Intel GMA 950, up to 224MB shared system memory ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone Integrated Broadcom 10/100 Ethernet Controller 56K V.92 modem Broadcom 4311AG 802.11a/b/g Touchpad with scroll zone none 6-cell (43 WHr) Lithium-Ion External 65W adapter 1/1/0 | |

Standard Features

| 6720t | Processor | Intel Celeron M Processor 423 (1.06 GHz) |
|-----------------------|----------------------------|---|
| KL145AT#ABA (English) | Operating System | Genuine Windows XP Embedded |
| KL145AT#ABC (Fr CAN) | System Memory | 1024MB 667MHz DDR2 SDRAM (1 DIMM) |
| Smart Buy | Internal Storage | 1 GB Flash Module |
| | Display | 15.4-inch diagonal WXGA anti-glare |
| | Graphics | Intel GMA 950, up to 224MB shared system memory |
| | Audio | ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone |
| | Communications | Integrated Broadcom 10/100 Ethernet Controller 56K V.92 modem |
| | Integrated Wireless | Broadcom 4311AG 802.11a/b/g |
| | Pointing Device | Touchpad with scroll zone |
| | Optical Drive | none |
| | Battery | 6-cell (43 WHr) Lithium-Ion |
| | Power | External 65W adapter |
| | Warranty | 1/1/0 |
| | * Intel's numbering system | is not a measurement of higher performance. |

| 6720t KL147AA#ABA (English) KL147AA#ABC (Fr CAN) Regional | Processor Operating System System Memory Internal Storage Display Graphics Audio | Intel Celeron M Processor 423 (1.06 GHz) Genuine Windows XP Embedded 1024MB 667MHz DDR2 SDRAM (1 DIMM) 1 GB Flash Module 15.4-inch diagonal WXGA anti-glare Intel GMA 950, up to 224MB shared system memory ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone |
|--|--|---|
| | Communications | Integrated Broadcom 10/100 Ethernet Controller 56K V.92 modem |
| | Integrated Wireless | Broadcom 4311AG 802.11a/b/g |
| | Pointing Device | Touchpad with scroll zone |
| | Optical Drive | 8x DVD |
| | Battery | 6-cell (43 WHr) Lithium-Ion |
| | Power | External 65W adapter |
| | Warranty | 1/1/0 |
| | * Intel's numbering system | is not a measurement of higher performance. |



Standard Features

| 6720t KL147AT#ABA (English) | Processor | Intel Celeron M Processor 423 (1.06 GHz) |
|--------------------------------|---------------------|--|
| | Operating System | Genuine Windows XP Embedded |
| KL147AT#ABC (Fr CAN) | System Memory | 1024MB 667MHz DDR2 SDRAM (1 DIMM) |
| Smart Buy | Internal Storage | 1 GB Flash Module |
| | Display | 15.4-inch diagonal WXGA anti-glare |
| | Graphics | Intel GMA 950, up to 224MB shared system memory |
| | Audio | ADI High Definition CODEC |
| | | Stereo headphone/line out and microphone in |
| | | Integrated microphone |
| | Communications | Integrated Broadcom 10/100 Ethernet Controller 56K V.92 modem |
| | Integrated Wireless | Broadcom 4311AG 802.11a/b/g |
| | Pointing Device | Touchpad with scroll zone |
| | Optical Drive | 8x DVD |
| | Battery | 6-cell (43 WHr) Lithium-Ion |
| | Power | External 65W adapter |
| | Warranty | 1/1/0 |
| | with the t | |

* Intel's numbering system is not a measurement of higher performance.



Options

| Memory | 1-GB 667-MHz DDR2 SDRAM 2-GB 667-MHz DDR2 SDRAM | EM994AA EM995AA |
|----------------------|--|--------------------|
| | 2-GD 007-IVII IZ DUKZ SUKAIVI | |
| Other Storage | HP USB Diskette Drive | DC361B |
| Expansion Solutions | HP Docking Station | EN488AA#ABA |
| | HP Monitor Stand | PA507A |
| | HP Adjustable Notebook Stand | PA508A |
| Power | HP 1-bay Battery Charging Station | RW635AA#ABA |
| | HP 5-bay Battery Charging Station | RW636AA#ABA |
| | Battery Adapter Kit | RW637AA |
| | 65W Smart AC Adapter | ED494AA#ABA |
| | 90W Smart AC Adapter | ED495AA#ABA |
| | 90W Smart Auto Adapter | ED493AA |
| | 65W Air/Auto/AC Smart Combo Adapter | ED993AA#ABA |
| | 6-cell 47Whr Li Ion Battery | TBD |
| | HP 8-cell Extended Life Battery | РВ99ЗА |
| | HP 12-cell Ultra-Capacity Battery | EJ092AA |
| Carrying Cases | HP Basic Carrying Case | AJ078AA |
| , , | HP Value Nylon Case | RR314AA |
| | HP Universal Nylon Case | RR315AA |
| | HP Executive Leather Case | RR316AA |
| | HP Deluxe Nylon Backpack | RR317AA |
| | HP Deluxe Roller Case | GD405AA |
| Security | HP/Kensington MicroSaver Security Lock | PC766A |
| Input/Output Devices | USB/PS2 Optical Mouse | DC369A |
| | HP USB Optical Travel Mouse | RH304AA |



Memory

Supports up to 2048 MB* of 667-MHz DDR2 SDRAM One DIMM slots DIMM sizes supported: 1024 MB and 2048 MB

Standard Memory 1024 MB (1024 MB x 1)

Optional Memory Upgrades Support for up to 2048 MB* of memory is available (with the installation of optional DDR2 SDRAM memory kit). Memory slot is user accessible. Please refer to the Hardware and Software Guide for installation procedures.

| Up to | Slot 1 |
|---------|---------|
| 2048 MB | 2048 MB |

NOTE: 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.

Memory Upgrades 2-GB 667-MHz DDR2 SDRAM

EM995AA



Storage

Removable Media Drive Support

| DVD-ROM Drive | Quantity Supported One | Drive Bay Fixed optical drive bay |
|---------------|---------------------------|--------------------------------------|
| | | |

Internal Storage Support

| | Quantity Supported | Drive Bay |
|---------------------|--------------------|-----------------|
| Primary Hard Drives | | |
| 1 GB Flash Module | One | Flash Drive Bay |



Technical Specifications

| System Unit | Dimensions (HxWxD) | 1.2 in (at front) x 14.1 in x 10.2 in 30 mm (at front) x 357 mm x 260 mm | | |
|-------------|---|---|---|--|
| | Weight | 5.4 lb (2.45 kg) | | |
| | NOTE: Height varies depending upon where on the notebook the measurement is made. Weight includes 6-cell battery, 1 GB memory, 1 GB flash module, 802.11 wireless communications module. Weight varies by configuration and components. | | | |
| | Stand-Alone Power | Normal Operating Voltage 19 V | | |
| | Requirements | Average Operating Powe | r 25 W | |
| | | Max Operating Power | < 65 W | |
| | Temperature | Operating | 32° to 95° F (0° to 35° C) | |
| | | Non-operating | -4° to 140° F (-20° to 60° C) | |
| | Relative Humidity | Operating | 10% to 90%, non-condensing | |
| | | Non-operating | 5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature | |
| | Shock | Operating | 125 G, 2 ms, half-sine | |
| | | Non-operating | 200 G, 2 ms, half-sine | |
| | Random Vibration | Operating | 0.75 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 Standard | UL | Yes | |
| | Certifications | CSA | Yes | |
| | | FCC Compliance | Yes | |
| | | ICES | Yes | |
| | | Australia / NZ A-Tick Compliance | Yes | |
| | | CCC | Yes | |
| | | Japan VCCI Compliance | Yes | |
| | | MIC | Yes | |
| | | BSMI | Yes | |



| Technical Specificati | ons | | | |
|-----------------------|----------------------------------|--|---|--|
| HP 65W Smart AC | Dimensions | 4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm) | | |
| Adapter | Weight | 0.62 lb (280 g) | | |
| | Input | 100 to 240 VAC | | |
| | | Input Efficiency | 83% min at 115 VAC | |
| | | Input frequency range | 47 to 63 Hz | |
| | | Input AC current | 1.7 A at 90 VAC, 0.85 A at 180 VAC | |
| | Output | Output power 65W | 65W | |
| | | DC output | 18.5V | |
| | | Hold-up time | 5 msec at 115 VAC input | |
| | | Output current limit | <11A, Over voltage protection- 29V max automatic shutdown | |
| | Connector | 3 pin/grounded, mates with interchangeable cords | | |
| | Environmental Design | Operating temperature | 32° to 104° F (0° to 40° C) | |
| | | Non-operating (storage) temperature | -4° to 149° F (-20° to 65° C) | |
| | | Altitude | 0 to 10,000 ft (0 to 3,048 m) | |
| | | Humidity | 20% to 80% | |
| | | Storage Humidity | 10% to 90% | |
| | EMI and Safety Certifications | standards – IEC60950, E approvals – C-UL-US, NC | e with LVD and EMC directives; Worldwide safety EN60950, UL60950, Class1, SELV; Agency DRDICS, DENAN, EN55022 Class B, FCC Class C, NOM-1 NYCE; MTBF – over 200,000 hours at | |
| | Option Kit Contents | 65W AC Adapter, power cable, warranty booklet | | |
| 47Wh Primary 6-Cell | Dimensions (H x W x L) | 0.8 × 1.9 × 10.6 in (2.0 × 4.8 × 27.0 cm) | | |
| Battery | Weight | 0.74 lb (0.336 kg) | | |
| | Cells/Type | 6-cell Lithium-Ion | | |
| | Energy | Watt-hour Capacity | 47Wh | |
| | Temperature | Operating (Charging) | 32° to 113° F (0° to 45° C) | |
| | | Operating (Discharging) | 14° to 140° F (-10° to 60° C) | |
| | | Non-operating | -4° to 140° F (-20° to 60° C) | |
| | Battery Re-Charge Tim | neSystem in OFF mode or Standby | 2.5 hours | |
| | | System ON | 3 to 5 hours (depending on system power consumption) | |
| | | HP Fast Charge Technology | Charges the battery up to 90% within 1.5 hours when system is OFF | |



| Technical Specificati | ons | | |
|-----------------------|--------------------------------------|--|--|
| Optional HP 8-Cell | Dimensions (H \times W \times L) | L) 1.0 x 3.9 x 8.7 in (2.5 x 10.0 x 22.0 cm) 1.00 lb (0.455 kg) | |
| Extended Life Battery | Weight | | |
| | Cells/Type | 8-cell Lithium-Ion | |
| | Energy | Watt-hour Capacity | 52Wh |
| | Temperature | Operating (Charging) | 32° to 113° F (0° to 45° C) |
| | | Operating (Discharging) | 14° to 140° F (-10° to 60° C) |
| | | Non-operating | -4° to 140° F (-20° to 60° C) |
| | Battery Re-Charge Tim | neSystem in OFF mode or Standby | 3 hours |
| | | System ON | 3 to 5 hours (depending on system power consumption) |
| | | HP Fast Charge Technology | Charges the battery up to 90% within 90 minutes when system is OFF |
| | Fuel Gauge | When pressed, LEDs light | indicating level of charge remaining on battery |
| Ontional HP 12-Cell L | JltÐimensions (H x W x L) | 1.3 x 6.0 x 10.6 in (3.3 | $3 \times 15.25 \times 26.88$ cm) |
| Capacity Battery | Weight | 1.77 lb (0.803 kg) | 5 × 15.25 × 20.00 cmj |
| , , , | Cells/Type | 12-cell Lithium-Ion | |
| | Energy | Watt-hour Capacity | 95Wh |
| | Temperature | Operating (Charging) | 32° to 113° F (0° to 45° C) |
| | | Operating (Discharging) | 14° to 140° F (–10° to 60° C) |
| | | Non-operating | -4° to 140° F (-20° to 60° C) |
| | Battery Re-Charge Tim | | 3 to 4 hours |
| | | System ON | 4 to 5 hours (depending on system power consumption) |
| | Fuel Gauge | When pressed IEDs light | indicating level of charge remaining on battery |



Technical Specifications

| 15.4-inch Color TFT | Active Area (W x H) | 13.0 x 8.1 in (33.1 x 20.7 cm) | |
|---------------------|---------------------|--------------------------------|-------------------|
| WXGA Display | Diagonal Size | 15.4 in (39.1 cm) | |
| | Surface Treatment | Anti-glare | |
| | Contrast Ratio | 300:1 (typical) | |
| | Refresh Rate | 60 Hz | |
| | Brightness | 170 nit (typical) | |
| | Pixel Resolution | Pitch | 0.259 mm |
| | | Format | 1280 x 800 |
| | | Configuration | RGB stripe |
| | Backlight | CCFL | |
| | PPI | 98 | |
| | Viewing Angle | ±45° Horizontal, ±25° Ve | ertical (typical) |
| | | | |

Internal Storage

| 1 GB Flash Module Drivleterface | | Standard ATA / IDE |
|-------------------------------------|--------------------------------------|--|
| (PATA) | Connector | 40-pin (2.54mm pitch) / 44-pin (2.00mm pitch) |
| | Capacities | 64MB~8GB |
| | Transfer mode | PIO Mode-4; MWDMA Mode-2 |
| Sustained Read/Write Performance | | 11 / 7 (MB/sec) |
| | ECC Support | 3 random 12 bit symbol ECC per 512 bytes (RS) |
| | Low Power Consumption (3.3V/5.0V) | prActive mode: 35mA/55mA Sleep mode: 100μA/150μA |
| Security function | | Write protection jumper (Optional) Factory-programmed, up to 20-byte unique ID (Software Protect mechanism) Protection Zone (Optional) |
| | Product types | Standard, Low-profile, Housing, Through Pin, Dual Through Pin |
| | Orientation | 90D, 180D, 270D |

Removable Storage Drives – Fixed Bay



| Technical Specificati | ons | | | | |
|-----------------------|--|--|-------------|--|--|
| DVD-ROM Drive | Access Times | Random | <116 ms CD | | |
| | | | <125 ms DVD | | |
| | Max Data Transfer Ra | te24X 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 | e)None | | | |
| | Max Media Capacity (read) | 4.7 GB | | | |
| | Transport | Tray Loading | | | |
| PremierSound Audio | | | | | |
| Hardware | Implementation | entation ADI1981HD High Definition CODEC | | | |
| | Volume Controls Up, down, and mute buttons | | | | |
| | Full Duplex | Yes | | | |
| | Sound Blaster Pro compatible | Yes | | | |
| | Microphone Jack | Stereo or mono | | | |
| | Headphone/Line Out Ja&kereo | | | | |
| Audio Outout Quality | Frequency Response | 20 Hz – 20 kHz | | | |
| 1 / | Signal to Noise Ratio | >85 dB | | | |
| | Total Harmonic Distortic0.01% | | | | |
| | Noise Floor | -110 dB | | | |
| | Play/Record Sampling Rate(s) | 8 kHZ – 48kHz | | | |
| | DAC | 16, 20 or 24-bit | | | |
| | ADC | 16 or 20-bit | | | |
| Internal Speakers | Power Rating | 2 Watts | | | |
| · | Impedance | 4 Ohms | | | |

Communications



| Technical Specificati | ons | | | |
|--|------------------------------|---|--|--|
| Integrated Broadcom 10/100 Ethernet PCI Controller (BCM4401) | Ethernet Features | 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 21- 30) | | |
| | | Auto-Negotiation (Automatic Speed Selection) | | |
| | | Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s | | |
| | | IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) | | |
| | Power Management | ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption | | |
| | Manageability | Wake-on-LAN from standby (configurable; Magic Packet and Microsoft) | | |
| | | Wake-Up Frame)PXE 2.1 Remote Boot | | |
| | | Statistics Gathering (RMON, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30) | | |
| | | Comprehensive diagnostic and configuration software suite | | |
| | Interface | 32-bit PCI, 33-MHz | | |
| | NIC Device Driver No | amBeoadcom 440X 10/100 Integrated Controller | | |
| V 02 56K Data /Fax | Form Factor | MDC 1.5 Daughtercard | | |
| V.92 56K Data/Fax Modem | | | | |
| | Power Management Support | APM Revision 1.2, ACPI | | |
| | 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 Capabiliti | | | |
| | | V.8bis | | |
| | | V.80 | | |
| | | V44, V.42bis, MNP5 (Compression) | | |
| | | V.42 (LAPM, MNP2-4) (Error Correction) | | |
| | | Optional symbol rates: 2800, 3429 | | |
| | | Asymmetric Symbol rates | | |
| | | Synchronous primary channel data signaling rates: 3600, 31200 | | |
| | | Automatic rate re-negotiation | | |
| | | V.34 V.32bis | | |
| | | V.32 | | |
| | | V.23 | | |
| | | V.22bis | | |
| | | V.22 V.21 | | |
| | | Bell 212A | | |
| | | Bell 103J | | |



| Technical Specificat | ions | |
|--|---|--|
| | 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 4311AG 802.11a/b/g WiFi Adapter | Wireless LAN Standard | dsEEE 802.11a IEEE 802.11b IEEE 802.11g |
| | Interoperability | Wi-Fi certified Cisco Compatible Extensions 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 |
| | Security ¹ | 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, EAP-SIM. |
| | | Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4). |
| | Sub-channels | Multinational support with frequency bands and channels compliant to local regulations. |
| | Media Access Protoco | 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 |
| | Output Power (for OFD <i>I</i> power varies by data rate) ² | M] 5 dBm |



Technical Specifications

| Transmit: 2.0 W (max) Receive: 1.5 W (max) | | | | |
|--|--|--|--|--|
| Idle mode ³ : 390 mW (nominal) | | | | |
| Sleep mode: 20 mW (max) | | | | |
| ACPI compliant power ma 802.11 compliant power | | | | |
| 54 Mbps: -72 dBm, 11 N | 1bps: -88 dBm , 1 Mbps: -97 dBm | | | |
| High efficiency dual band antenna with spatial diversity, mounted in the | | | | |
| 802.11 a – Typical (@6 Mbps) | 600 feet – Outdoor Open Area 150 feet – Indoor, Office environment | | | |
| 802.11 b – Typical (@1 Mbps) | 1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment | | | |
| 802.11 g – Typical (@1 Mbps) | 1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment | | | |
| PCI-Express MiniCard | | | | |
| 0.026 lb (12 g) | | | | |
| 0.19 x 1.2 x 2.0 in (4.75 | 5 x 29.85 x 50.8 mm) | | | |
| 3.3v +/- 10% | | | | |
| Operating Non-operating | 32° to 176° F (0° to 80° C) -40° to 176° F (-40° to 80° C) | | | |
| Operating Non-operating | 10% to 90% (non-condensing) 5% to 95% (non-condensing) | | | |
| Operating Non-operating | 0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m) | | | |
| Choice of Configuration U | Itility: | | | |
| Microsoft Windows XP Wireless Network Connection Manager Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support) | | | | |
| LED Off – Radio OFF; Solid | d LED On – Radio ON | | | |
| LED Activity LED Off – Radio OFF; Solid LED On – Radio ON 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 In Power Save Polling mode. | | | | |
| | e of 8% for 802.11b (CKK modulation) and a | | | |
| or 802.11a/g (OFDM mo | | | | |
| u | mpatible Extensions support. WLAN may also be | | | |
| | Receive: 1.5 W (max) Idle mode ³ : 390 mW (not Sleep mode: 20 mW (mat ACPI compliant power mod 802.11 compliant power 54 Mbps: -72 dBm, 11 M High efficiency dual band display enclosure 802.11 a – Typical (@6 Mbps) 802.11 b – Typical (@1 Mbps) 802.11 g – Typical (@1 Mbps) 802.11 g – Typical (@1 Mbps) PCI-Express MiniCard 0.026 lb (12 g) 0.19 x 1.2 x 2.0 in (4.75 3.3v +/- 10% Operating Non-operating Operating Non-operating Operating Non-operating Choice of Configuration U • Microsoft Windows • Broadcom Wireless Compatible Extension LED Off – Radio OFF; Solid river release for updates or may vary by country according de. sured at a packet error rate or 802.11 a/g (OFDM mod | | | |



Technical Specifications

Environmental Data Eco-Label Certifications This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

• (NEED CERTIFICATIONS)

System Configuration The configuration used for the Energy Consumption and Declared Noise Emissions data is based on [add configuration here]

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