

## Overview



1. Active Bluetooth/WLAN Indicator
2. Power Button
3. LED Power/Notification Indicator
4. Color Display
5. iTask Button

6. Inbox Button
7. 5-Way Navigation Button
8. Contacts Button
9. Calendar Button

## At A Glance

- Integrated WLAN 802.11b<sup>1</sup>
- Integrated Bluetooth™<sup>1</sup>
- Integrated SD expansion slot
- Microsoft® Windows® Mobile™ 2003 software for Pocket PC
- Dazzling Transflective TFT color with LED backlight display
- Removable/rechargeable battery
- Stay productive with Pocket versions of familiar applications like Microsoft Outlook, Word and Excel

**NOTE 1:** A standard WLAN infrastructure, other devices enabled with Bluetooth, and a service contract with a wireless airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with a service provider for availability and coverage in your area. Not all web content available.

## Standard Features

### Models

#### iPAQ Pocket PC h4150 – 64-MB SDRAM

FA174A#ABA – US Commercial, English

FA174A#ABC – French Canadian

FA174A#ABG – Australia, New Zealand

FA174A#ABU – UK, English

FA174A#ABB – Euro English

FA174A#ABD – German

FA174A#ABF – French

FA174A#ABZ – Italian

FA174A#ABE – Spanish

FA174A#B16 – Latin America, Spanish

FA174A#AC4 – Brazilian Portuguese

FA174A#ABJ – Japanese

FA174A#UUF – APD, English

FA174A#AB2 – S-Chinese

FA174A#AB0 – Taiwan, T-Chinese

FA174A#AB5 – Hong Kong, T-Chinese

FA174A#AB1 – Korean

FA174A#ARE – Malaysia

#### iPAQ Pocket PC h4155 – 64-MB SDRAM

FA175A#ABA – US Retail, English

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<b>Processor</b>	400 MHz Intel® Xscale™ technology-based processor	
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<b>Memory</b>	<b>SDRAM</b>	64-MB (55-MB user accessible) Up to 2.8-MB iPAQ File Store (varies by SKU)
	<b>ROM</b>	32-MB

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<b>Display</b>	<b>Type</b>	Transflective type TFT color with LED backlight
	<b>Number of Colors</b>	64K color (65,536 colors) 16-bit
	<b>Touch Screen</b>	Yes
	<b>Resolution (W x H)</b>	240 x 320
	<b>Viewable Image Size</b>	3.5 in (89 mm)

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<b>Hardware Buttons/ Reset Buttons</b>	One power button, one recording button, one soft reset switch, four software programmable application buttons, one 5-way navigation button	
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<b>Stylus</b>	One (extra stylus included in the box)	
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<b>Audio</b>	Integrated microphone, speaker and one 3.5 mm headphone jack, MP3 stereo (through audio jack)	
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### Standard Features

Notification Systems	Alarms	Solid amber LED (right) - battery in unit fully charged Flashing amber LED (right) - battery in unit is charging Flashing green LED (right) - event alarm/notification Flashing green LED (left) - WLAN active Flashing blue LED (left) - Bluetooth active
	Notification	Sound and message on the display
Cradle Interfaces	Connector	1
	Cable	1 USB cable connects to PC
	DC Jack connector for AC Adapter	1
	Additional battery charger	Charge additional slim or extended batter
SD Slot	Support SDIO and SD/MMC type standard	
Power Supply	Battery	Removable/Rechargeable 1000 mAh Lithium-Ion user swappable battery. Estimated usage time of fully charged battery up to 12 hours (no wireless, no backlight). Optional extended 1800 mAh Lithium-Ion battery available for purchase.
	AC Power	AC Input: 100~240 Vac, 50/60 Hz, AC Input current: 0.2 Aac max Output Voltage: 5Vdc (typical), Output Current: 2A (typical)
<b>NOTE:</b> Battery run time varies based on the usage pattern of an individual user and the configuration of the handheld. Use of internal wireless capabilities and backlight will significantly decrease battery run time.		
Ergonomic Design Features	Instant-on/off and Backlight 5-way Navigation button Touch-sensitive display for stylus 4 programmable application launch buttons - defaults configured for Calendar, Contacts, Inbox, and iTask buttons Record button 2 alarm settings Built-in speaker	
HP Exclusive Applications	Bluetooth Manager iPAQ File Store: non-volatile storage in flash ROM (not available in Japanese, Simplified Chinese, Traditional Chinese and Korean versions) iPAQ Backup: utility for Backup/Restore to Main Memory, Memory Card or iPAQ File Store iPAQ iTask Manager: access and launch programs easily iPAQ Image Zone: view images and create slide shows Utilities: Self Test, iPAQ Audio, Power Status	

## Standard Features

### Companion CD from HP APPLICATIONS

#### Full Versions

HP Web registration  
HP Mobile Print Center  
Westtek ClearVue Suite  
F-Secure FileCrypto Data Encryption  
Colligo Personal Edition  
Adobe PDF Viewer  
RealOne Player for Pocket PC  
iPresenter PowerPoint converter  
MobiMate WorldMate  
Resco File Explorer 2003 - U.S. Retail only

#### Trial Versions

Xcellenet Afaria Device Management Agent  
Margi Presenter-to-Go (requires purchase of additional hardware)  
Illium ListPro  
CommonTime Cadenza mNotes  
Resco Picture Viewer - U.S. Retail only

#### CD LINKS

NetMotion  
Avaya IP Softphone  
IP Blue VTGO!  
Cisco CallManager  
Pocket Presence Running Voice IP  
Vindigo  
Audible Manager and Audible Player (Service plan required to download and play Audible content - link)  
SingleTap  
Handango  
Pocket Backup Plus

#### Additional Documentation

Safety and Comfort Guide on PDF, and User Guide on PDF

**NOTE:** Programs may vary based on SKU. Some programs are accessed through CD links to download web sites.

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<b>Operating System</b>	Microsoft Windows Mobile 2003 software for Pocket PC - Premium edition Pocket versions of Microsoft software are included (Outlook, Word, Excel and Internet Explorer for Pocket PC)
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<b>Operating System Applications</b>	Powered by Microsoft Windows Mobile 2003 for Pocket PC Calendar, Contacts, Tasks, Voice Recorder, Notes, Pocket Word (with Spellchecker), Pocket Excel, Pocket Internet Explorer, Windows Media Player 9 (MP3, audio and video streaming), Calculator, Solitaire, Jawbreaker, Inbox (with Spell Checker for email), Microsoft Reader (eBooks), File Explorer, Pictures, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, Memory, Volume control, ClearType Tuner (except for Asian languages)
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### Standard Features

**Additional Software and links** Outlook 2002, Microsoft ActiveSync 3.7 (Desktop device synchronization), Microsoft Reader eBooks, Links to Microsoft websites for additional downloadable applications (some programs may require purchase of additional desktop software to utilize Pocket PC versions)

**Service and Support** One-year parts and labor in most regions; two-year warranty in Europe (one-year warranty for rechargeable battery pack) 90 days technical support for software in all regions. Optional HP Care Pack available in North America for Next Business Day replacement (at additional charge)

<b>WLAN Specifications<sup>1</sup> Radio Specifications</b>	<b>RF Network Standard</b>	IEEE 802 Part 11b (802.11b)
	<b>Frequency Band</b>	2.4000 to 2.4835 GHz 2.4465 to 2.4835 GHz (France) 2.4000 to 2.497 GHz (Japan)
	<b>Antenna type</b>	Embedded Inverted F Antenna
	<b>WEP Security</b>	64/128-bit compliant to IEEE 802.11 Compliant to 802.1X
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)
	<b>Modulation Technique</b>	Direct Sequence Spread Spectrum
	<b>Modulation Schemes</b>	DBPSK, DQPSK, CCK
	<b>Receiver Sensitivity - Packet Error Rate (8E-2)</b>	11 Mbps: <-80 dBm 5.5 Mbps: <-82 dBm 2 Mbps: <-86 dBm 1 Mbps: <-89 dBm
	<b>Maximum Receive Level</b>	-10dBm (1/2/5.5/11 Mbps)
	<b>Output Power (maximum)</b>	15 dBm (limited due to FCC SARS requirements)
	<b>Power Management</b>	Radio On/Off control through Microsoft Connection icon, Power Save mode available in Power Settings
	<b>Power Consumption</b>	Transfer mode: < 380 mA, average Receive mode: < 280 mA, average
	<b>Power Saving Option</b>	802.11 Compliant Power Saving, idle mode 25 mA
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
	<b>Protocols Supported</b>	TCP/IP IPX/SPX UDP
	<b>SAR</b>	1.0 mW/g
	<b>Throughput</b>	>4.5 Mbps
	<b>Operating Distance</b>	Up to 1000 feet - open sight
	<b>Certifications</b>	All necessary regulatory approvals for countries we support including: WECA Wi-Fi approval FCC (47 CFR) Part 15C, Section 15.247&15.249 ETS 300 328, ETS 301 489-1 Low Voltage Directive IEC950 UL, CSA, and CE Mark

## Standard Features

**NOTE:** <sup>1</sup> A standard WLAN infrastructure, other devices enabled with Bluetooth, and a service contract with a wireless airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with a service provider for availability and coverage in your area. Not all web content available.

<b>Bluetooth Specifications<sup>1</sup></b>	<p><b>Technology</b> High-speed, low-power, short-range</p> <p><b>Bluetooth specification</b> 1.1 compliant (2.4-GHz Industrial Scientific Medical Band)</p> <p><b>System interface</b> High-speed UART processor interface</p> <p><b>User Interface</b> Bluetooth Manager</p> <p><b>Device type</b> Class II device; up to 4 dBm transmit, typical 10 meter range</p> <p><b>Power</b> 3.3V 5% Peak current - typical TX current at approximately 30mA - typical RX current at approximately 50 mA</p> <p><b>Receiver sensitivity</b> -78 dBm</p> <p><b>Regulatory standards</b> R&amp;TT#-EN 300 328 and EN 300 826, UL 1950, CB Safety Scheme inclusive of EN 60950 and IEC 950, FCC Part 15 subpart C, Canadian, CE</p> <p><b>Profile Support</b> General Access Profile Service Discovery Application Profile Serial Port Profile Generic Object Exchange Profile File Transfer Profile Dial-Up Networking Profile LAN Access Profile Object Push Profile Personal Area Networking Profile Basic Printing Profile Hard Copy Replacement Profile (printing)</p>
<b>Usage Models <sup>1</sup></b>	<p><b>Service Discovery</b> Determine what Bluetooth devices are within range and support authorization</p> <p><b>File Transfer</b> File and directory browsing and navigation on another Bluetooth device. File copying Object manipulation - including add, delete, create new folders etc.</p> <p><b>Serial Port</b> Synchronization between PDAs and PCs</p> <p><b>Dial Up Networking</b> Wireless link to WAN thru Bluetooth enabled cell phone<sup>1</sup> Agnostic to WAN technology Send/receive SMS messages</p> <p><b>LAN Access</b> Wireless link to Corporate LAN using Bluetooth and appropriate Bluetooth access point<sup>1</sup> Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP<sup>1</sup> Access the Internet by connecting to your desktop or notebook over Bluetooth and using its network connection<sup>1</sup></p> <p><b>Generic Object Exchange and Object Push</b> Exchange business cards, tasks, documents, appointments and more<sup>1</sup></p>

## Standard Features

### Personal Area Networking

Collaborate, chat, play games, exchange data<sup>1</sup>

Adhoc peer to peer networking<sup>1</sup>

### Basic Printing and Hard Copy Replacement Profiles

Print to any HP Bluetooth enabled printer without the need for cables or specific print drivers

### Certifications

All necessary regulatory approvals for countries we support including:

Bluetooth logo, FCC (47 CFR) Part 15C, Section 15.247&15.249 ETS 300

328, ETS 301 489-1/17 Low Voltage Directive IEC950 UL and CE Mark

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### TechSpecs

<b>System Unit</b>	<b>Dimensions (H x W x D)</b>	4.47 in x 2.78 in x 0.5 in (113.6 mm x 70.6 mm x 13.5 mm)	
	<b>Weight</b>	4.67oz (132 g)	
	<b>Operating Temperature</b>	32° to 104° F (0° to 40° C)	
	<b>Storage Temperature</b>	-4° to 140° F (-20° to 60° C)	
	<b>Operating Humidity</b>	90% RH	
	<b>Regulatory Marks</b>	Electrical	FCC Class B, UL or CSA NRTL
	Safety	C-UL, NOM	

<b>TFT Color Display</b>	<b>Number of Colors</b>	65,536 (64K 16-bit)	
	<b>Resolution (W x H)</b>	240 x 320	
	<b>Dot Pitch</b>	0.24 mm	
	<b>Viewable Image (W x H)</b>	3.5 in (89 mm)	
	<b>Display Type</b>	64K color (16-bit) transfective type TFT color with LED	

<b>AC Adapter</b>	<b>Dimensions (H x W x D)</b>	3 x 1.9 x 1.8 in (76 x 48 x 44 mm) (including prongs)		
	<b>Cord Length</b> (approximate)	6 ft (1.83 m)		
	<b>Power Supply Ratings</b>	<b>Voltage Range</b>	100 to 240 V Switching	
		<b>Input Current</b>	0.3 A	
		<b>Input Frequency</b>	50 to 60 Hz	
		<b>Output Voltage</b>	5 VDC	
		<b>Output Current</b>	2 Amp	

## Options

**NOTE:** Optional accessories are available at additional cost.

<b>Memory/Storage</b>	64-MB SD Memory Card	253478-B21	FA134A#AC3
	128 MB SD Memory Card	253479-B21	FA135A#AC3
	256 MB SD Memory Card	287464-B21	FA136A#AC3
	512-MB SD Memory Card	344310-B21	FA184A#AC3
<b>Power</b>	1800 mAh Lithium Ion Extended Battery	343110-001	FA192A#AC3
	1000 mAh Lithium Ion Slim Battery	343111-001	FA191A#AC3
	Auto Adapter	253508-B21	FA125A#AC3
	Charger Adapter	274707-B21	FA133A#AC3
	AC Adapter		
	U.S., Canada, Latin America, Japan, Taiwan	253629-001	FA130A#ABA
	Australia	253629-011	FA130A#ABG
	Europe, Brazil	253629-021	FA130A#ABB
United Kingdom, Asia Pacific, Hong Kong	253629-031	FA130A#ABU	
<b>Synchronization</b>	Desktop Cradle	343116-001	FA188A#AC3
	USB Charge/Sync Cable		FA122A#AC3
<b>Other</b>	Stylus Three-pack	331311-B21	FA113#AC3
	Foldable Keyboard	249693-xxx	FA118A#xxx
	Micro keyboard		FA162A#AC3
<b>Performance</b>	Photosmart Mobile Camera (SDIO Camera)		FA185A#AC3
	iPAQ Navigation System (U.S. only)		FA196A#AC3
<b>Cases</b>	Nylon Case	339657-B21	FA161A#AC3
	Leather Belt Case	339656-B21	FA160A#AC3
	Custom Cases: to view and order go to: <a href="http://www.casesonline.com/">http://www.casesonline.com/</a>		

## Options



HP iPAQ Pocket PC h4150 is a Microsoft® Windows® Powered Pocket PC

For more information on HP iPAQ Pocket PC, visit our website at <http://www.hp.com/go/iPAQ>

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