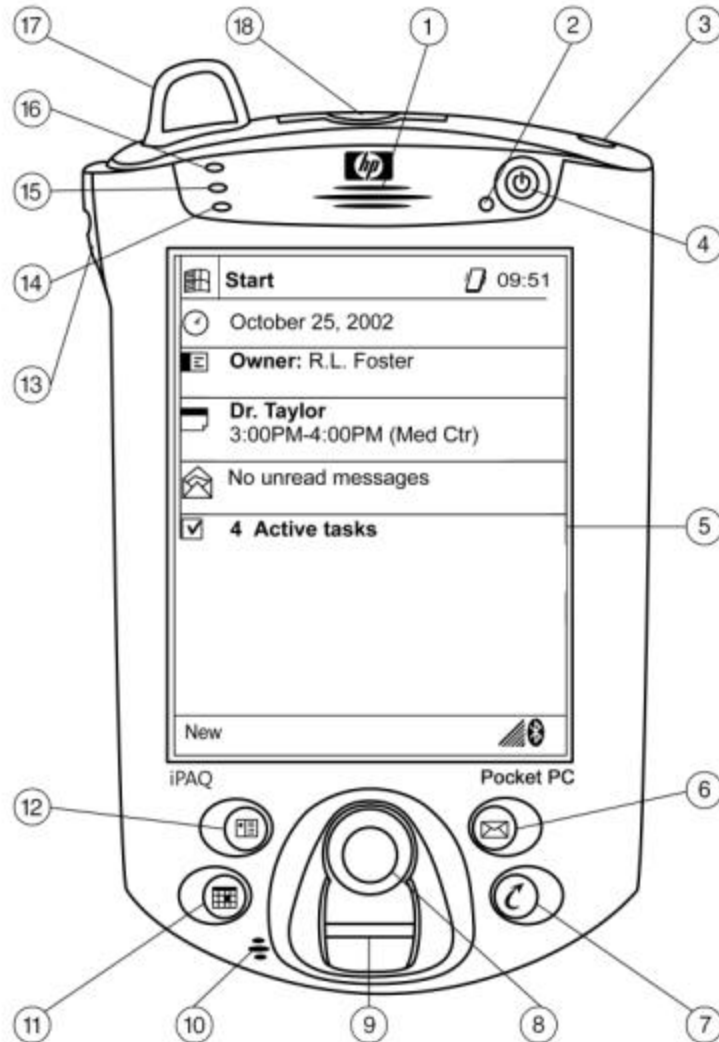


Overview

At A Glance

- Integrated Wireless LAN 802.11b
- Integrated Bluetooth™
- Integrated Biometric Fingerprint Reader
- Removable/Rechargeable Battery
- Dazzling Transflective TFT color liquid crystal display
- Integrated SD slot
- Intel® XScale processor
- Increased memory
- Advanced Power Management
- Consumer Infrared and IrDA SIR
- 3.5 mm 4-way Audio Jack
- Microsoft® Pocket PC 2002



- | | |
|----------------------------|--------------------------------|
| 1. Speaker | 10. Microphone |
| 2. Power Indicator | 11. Calendar Button |
| 3. Stylus | 12. Contacts Button |
| 4. Power Button | 13. Volume |
| 5. Color Display | 14. Light Sensor |
| 6. Inbox Button | 15. Active Bluetooth Indicator |
| 7. iTask Button | 16. Wireless LAN Indicator |
| 8. 5-Way Navigation Button | 17. Antenna |
| 9. Fingerprint Reader | 18. SD Slot |



Standard Features

MODELS

iPAQ Pocket PC h5450 – 48-MB ROM/64-MB RAM WLAN/BT/Biometrics/SD

- 264493-001 – U.S. Commercial*
- 264493-011 – Australia/New Zealand*
- 264493-021 – Europe (Norway, Denmark, Sweden, Finland, Netherlands)*
- 264493-031 – UK, Singapore, Hong Kong*
- 264493-041 – Germany*
- 264493-051 – France*
- 264493-061 – Italy*
- 264493-071 – Spain*
- 264493-161 – Latin America*
- 264493-121 – French Canadian*
- 264493-201 – Brazilian Portuguese*
- 264493-291 – Japan*
- 264493-371 – Singapore, Thailand, Malaysia*
- 264493-AA1 – Simplified Chinese for Mainland China*
- 264493-AB1 – Traditional Chinese for Taiwan*
- 264493-AC1 – International English for Hong Kong*
- 264493-AD1 – Korea*

iPAQ Pocket PC h5455 – 48-MB ROM/64-MB RAM WLAN/BT/Biometrics/SD

- 264493-002 – U.S. Retail*

Standard Features

Processor	400 MHz Intel PXA250 Application Processor												
Memory	64-MB SDRAM; 48-MB Flash ROM Memory												
Input Method	Handwriting recognition, soft keyboard, character recognition, voice recorder, inking												
Interfaces	3-mode alarm notification Vibrate, Flashing green LED, tone, pop-up message Charge active: flashing / solid amber LED Bluetooth active: flashing /solid blue LED WLAN active: Flashing green LED WLAN enabled, searching, but not connected: flashing amber LED												
Cradle Interfaces	<table border="1"> <tr> <td>Connector</td> <td>1</td> </tr> <tr> <td>Cable</td> <td>1 USB or Serial cable connects to PC</td> </tr> <tr> <td>DC Jack connector for AC Adapter</td> <td>1</td> </tr> <tr> <td>Stylus Holder</td> <td>2 holes, on left and right front</td> </tr> <tr> <td>Stabilizing Tab Release Button</td> <td>2 Tabs engage the sides of Pocket PC when no Expansion Pack is in use</td> </tr> <tr> <td>Base extension</td> <td>An extendable base which can be used to raise cradle to enhance biometric fingerprint swipe motion while in cradle</td> </tr> </table>	Connector	1	Cable	1 USB or Serial cable connects to PC	DC Jack connector for AC Adapter	1	Stylus Holder	2 holes, on left and right front	Stabilizing Tab Release Button	2 Tabs engage the sides of Pocket PC when no Expansion Pack is in use	Base extension	An extendable base which can be used to raise cradle to enhance biometric fingerprint swipe motion while in cradle
Connector	1												
Cable	1 USB or Serial cable connects to PC												
DC Jack connector for AC Adapter	1												
Stylus Holder	2 holes, on left and right front												
Stabilizing Tab Release Button	2 Tabs engage the sides of Pocket PC when no Expansion Pack is in use												
Base extension	An extendable base which can be used to raise cradle to enhance biometric fingerprint swipe motion while in cradle												
Display	Transflective TFT liquid crystal display 64K color (65,536 colors) 16-bit touch-sensitive transflective thin film transistor (TFT) liquid crystal display (LCD) Viewable image size – 2.26 in wide x 3.02 in tall (57.6 mm wide x 76.8 mm tall), 3.8 in Diagonal (96 mm)												
Power Supply	<p>1250 mAh Lithium-Ion Polymer removable / rechargeable battery (in docking cradle or with AC Adapter) Internal Back up battery - Allows user to swap main removable battery with the system power in standby <u>2500 mAh Lithium-Ion Polymer Extended Battery (sold as an accessory)</u></p> <table border="1"> <tr> <td>Battery Re-Charge Time</td> <td>System in OFF mode or Standby 2.5 hours System ON (depending on system power consumption) 3 to 6 hours</td> </tr> </table> <p>NOTE: Battery life will vary based on the usage pattern of an individual user and the configuration of the handheld. Use of some attachments may significantly decrease battery life.</p>	Battery Re-Charge Time	System in OFF mode or Standby 2.5 hours System ON (depending on system power consumption) 3 to 6 hours										
Battery Re-Charge Time	System in OFF mode or Standby 2.5 hours System ON (depending on system power consumption) 3 to 6 hours												
Expansion Capabilities	Supports Expansion Packs Integrated SD slot - supports SD/MMC type standard, SDIO ready												
Audio Capabilities	Audio record and play back (play MP3 music or audio programs from the Web, as well as records and plays back voice notes or meeting notes) Volume up/down/mute Integrated speaker, 3.5 mm stereo headphone and microphone jack												
Ergonomic Design Features	Multifunction power button 5-way Joypad Volume up/down/mute Biometric Fingerprint Reader Touch-sensitive display for stylus or fingertip Microphone and Speaker on front-side of unit												
HP Exclusive Applications (On device)	These are the extras that HP put in ROM iPAQ Fingerprint Reader: enhanced security iPAQ File Store: non-volatile storage in flash ROM; iPAQ Task Manager: access and launch programs easily, iPAQ Backup: utility for Backup/Restore to Main Memory, Memory Card, or iPAQ File Store: iPAQ Image Viewer: view images and create slide shows, Nevo: Universal Remote Control, Adjustable Standby Settings: Utility for adjusting power conservation modes, Utilities: Self Test, Expansion pack, iPAQ Audio, Power Status												

Standard Features

Companion CD from HP

APPLICATIONS

Full Versions

Jeode Java Virtual Machine
Macromedia® Flash™ Player*
Quick View Plus
FileCrypto Data Encryption
Colligo
Bust'em game
SuperScape interactive game
Adobe PDF Viewer
RealOne Player for Pocket PC
iPresenter PowerPoint converter
Pocket Watch World Clock
Peacemaker Pro application on SKU 264493-002 – U.S. Retail

Trial Versions

Xcelsius Device Management Agent
Wordlogic Predictive Keyboard
Eletel Messaging Software
Margi Presenter-to-Go (requires purchase of additional hardware)
Ewallet
ListPro

CD LINKS

CheckPoint
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
Infowave SymmetryPro
GoAmerica Document Manager
CNM Network Xpress Conferencer

Additional Documentation

iPAQ Reference Guide on PDF and ebook (certain countries only)

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

NOTE: * = This product features the Macromedia Flash Player. For further information on the Macromedia Flash Player, visit <http://www.macromedia.com/software/flash/about/>.

Operating System Applications

Powered by Microsoft Windows® for Pocket PC 2002
Calendar, Contacts, Tasks, Voice Recorder, Notes, Pocket Word (with Spellchecker), Pocket Excel, Pocket Internet Explorer, Windows Media Player 8 (MP3, audio and video streaming), Calculator, Solitaire, Inbox (with Spell Checker for email), Microsoft Reader (eBooks), File Explorer, MSN Messenger, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, File Explorer, Memory, Volume control

Applications from Microsoft on Companion CD

Additional Software from Microsoft

Outlook 2000, Microsoft ActiveSync 3.5 (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)

Standard Features

WLAN Specifications*

Radio Specifications

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 Sub-channels	United States (FCC)	11
	France (FR)	4
	Japan (JP)	14
	Other countries (ETSI)	13
Data Rates	1, 2, 5.5, 11 Mbps	
Antenna type	High performance ½ wavelength stub, connected via micro strip touch pad	
WEP Security	64 bit encryption keys compliant to IEEE 802.11 128 bit encryption key compliant to IEEE 802.11	
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)	
Modulation Technique	Direct Sequence Spread Spectrum	
Modulation Schemes	DBPSK, DQPSK, CCK	
Receiver Sensitivity – Bit Error Rate (1E-5)	11 Mbps: <-80 dBm 5.5 Mbps: <-82 dBm 2 Mbps: <-85 dBm 1 Mbps: <-88 dBm	
Maximum Receive Level	- 4 dBm (1/2 Mbits) -10dBm (5.5/11 Mbits)	
Output Power (approximately)	17 dBm	
Power Management	Radio On/Off control through Wireless Control or iPAQ WLAN application	
Power Consumption	Transfer mode: < 500 mA, maximum Receive mode: < 260 mA, maximum Standby mode: < 20 mA, nominal	
Power Saving Option	802.11 Compliant Power Saving, 50 mA Power Saving Mode selectable through the configuration utility ACPI compliant power management	
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK	
Protocols Supported	TCP/IP IPX/SPX UDP	
Throughput	Data Rate	Operating Distance
> 4.5 Mbps	11 Mbps	<ul style="list-style-type: none"> • 1000 feet – Open sight • 100 feet – Closed space (Steel Space)
> 2 Mbps	5.5 Mbps	<ul style="list-style-type: none"> • 1100 feet – Open sight • 200 feet – Closed space (Steel Space)
> 700 Kbps	1 Mbps	<ul style="list-style-type: none"> • 1200 feet – Open sight • 300 feet – Closed space (Steel Space)
Certifications	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 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark	

Standard Features

Bluetooth Specifications*	Technology	high-speed, low-power, short-range
	Bluetooth specification	1.1 compliant (2.4-GHz Industrial Scientific Medical Band)
	System interface	921k high-speed UART processor interface
	User Interface	Bluetooth Manager
	Operating system support	Microsoft Pocket PC and Pocket PC 2002
	Device type	Class II device; up to 4 dBm transmit, typical 10 meter range
	Power	3.3V ± 5% Peak current - typical TX current at approximately 140 mA
	Receiver sensitivity	-78 dBm or greater
	Regulatory standards	R&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,
	Profile Support	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)
Usage Models *	Service Discovery	Determine what Bluetooth devices are within range and support authorization
	File Transfer	File and directory browsing and navigation on another Bluetooth device. File copying Object manipulation – including add, delete, create new folders etc.
	Serial Port	Synchronization between PDA's and PC's
	Access Point	Wireless link to WAN thru cell phone Agnostic to WAN technology Send/receive SMS messages Connect your printer and scanner to your personal network wirelessly Adhoc Bluetooth Pico-networking (point to multi-point)
	LAN Access	Wireless link to Corporate LAN using Bluetooth Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP Access the Internet by connecting to your desktop or notebook over Bluetooth and using its network connection
	Object Push	Exchange business cards, tasks, documents, appointments and more
	Personal Area Networking	Collaborate, chat, play games, exchange data Adhoc peer to peer networking
	Basic Printing and Hard Copy Replacement Profiles	Print to any HP Bluetooth printer without the need for cables or specific printers
	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 300 826 Low Voltage Directive IEC950 UL and CE Mark
	NOTE: * 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

Biometric Fingerprint Reader	Thermal Silicon Sensor - measures the temperature differential between the skin ridges and the air caught in the fingerprint valleys. 280 pixel image width 500 dpi pixel pitch Small sensor size (0.4 x 14 mm) optimized for handheld devices. Full fingerprint image is captured by sweeping the finger across the sensor area High quality image even with dry or difficult fingerprints Self-cleaning - no latent print is left on the imaging surface
Operating System	Microsoft Pocket PC 2002
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 <i>CarePAQ</i> ™ available in North America for Next Business Day replacement (at additional charge)

Technical Specifications

System Unit	Dimensions		
	Length of Unit (without LAN antenna)	5.23 in (133.0 mm)	
	Length of Unit (with LAN antenna)	5.43 in (138.0 mm)	
	Width	3.30 to 3.03 in tapering (84.0 to 77.0 mm tapering)	
	Depth	0.63 in (15.9 mm)	
	Weight	7.26 oz (206 g)	
	Operating Temperature	32° to 104° F (0° to 40° C)	
	Operating Humidity	10% to 90%	
	Regulatory Marks	Electrical	FCC Class B, VCCI, CE, C-Tick,
		Safety	CE Marking, C-UL, NOM
	RAM	64 MB	
	ROM (Flash)	48 MB (Flash ROM)	Up to 20 MB non-volatile flash ROM storage available in iPAQ File Store (varies by SKU)
	TFT Color Display	Number of Colors	65,536 (64K 16-bit)
Resolution (W x H)		240 x 320	
Dot Pitch		0.24 mm	
Viewable Image (W x H)		2.26 x 3.02 in (57.6 x 76.8 mm), 3.8 in Diagonal (96 mm)	
Display Type		Color (65,536 colors (16 bit) transfective thin film transistor (TFT) liquid crystal display (LCD))	
AC Adapter	Dimensions (H x W x D)		
	3 x 1.9 x 1.8 in (76 x 48 x 44 mm) (including prongs)		
	Cord Length (approximate)	6 ft (1.83 m)	
	Power Supply Ratings	Voltage Range	100 to 240 V Switching
		Input Current	0.3 A
		Input Frequency	50 to 60 Hz
		Output Voltage	5 VDC
Output Current		2 Amp	

Technical Specifications

Removable/Rechargeable Battery	1250 mAh Lithium Polymer
	Internal backup battery (not removable)

Battery Life Estimations	Usage Scenarios using Slim Removable 1250 mAh battery
	Idle Mode (screen active with no user Input or Output) Up to 12 hours
	Active Mode, Backlight off (frequent user input) Up to 10 hours
	Idle Mode, WLAN receive only (Power Management On) Up to 7 hours
	Idle Mode, Backlight off, WLAN transmit and receive (Power Management On) Up to 4 hours

NOTE: These scenarios are estimations using the default Standby Setting of 72 hours. Battery life will vary based on an estimated typical use pattern of an average user, the configuration of the computer and the usage pattern of the individual user. Use of some attachments may significantly decrease battery life.

Options

Expansion Packs	CF Card Expansion Pack Plus	249709-B21
	PC Card Expansion Pack Plus	249708-B21
	CF Card Expansion Pack	170339-B22
	Dual-Slot PC Card Expansion Pack	216198-B21
Style Packs	Cover Pack	249707-B21
Memory/Storage	IBM Microdrive with PC Card Adapter	217390-B25
	64-MB SD Memory Card	253478-B21
	128-MB SD Memory Card	253479-B21
	256-MB SD Memory Card	287464-B21
	CompactFlash (CF) 32-MB Memory Card	104703-004
	CompactFlash (CF) 64-MB Memory Card	104703-003
	NOTE: Any CF Card Expansion Pack required.	
Power	AC Adapter	253629-xxx
	Auto Adapter	253508-B21
	Slim Battery for Expansion Pack Plus Products	253512-B21
	Extended Battery for Expansion Pack Plus Products	253514-B21
	iPAQ Pocket PC Slim Battery	290484-B21
	iPAQ Pocket PC Extended Battery	290486-B21
	Battery Charger	253516-xxx
	Charger Adapter	274707-B21
	NOTE: Part numbers ending with xxx are specific to country.	
Synchronization	AutoSync Cable (USB and Serial)	250178-B21
	Desktop Cradle (USB and Serial)	250182-B21
Communications	WL110 Wireless PC Card (requires PC Card Expansion Pack)	191808-B21
	CompactFlash Modem 56K V.90 (requires CF Card Expansion Pack)	268927-xxx
	NOTE: Part numbers ending with xxx are specific to country.	
Cases	Expandable Case	217883-B22
	Premier Leather Case	253504-B21
	Zippered Leather Case	262207-B21
	Rugged Case	230465-B21
	Three Pack of Screen Protectors	253517-B21

Options

Other	Stylus Three-Pack Replacement Kit	253510-B21
	Micro Keyboard	250111-xxx
	Foldable Keyboard	249693-xxx

NOTE: Part numbers ending with xxx are specific to country.

NOTE: Options are sold separately

HP PCs use genuine Microsoft® Windows®

<http://www.microsoft.com/piracy/howtotell>

© 2002 Hewlett-Packard Company

Hewlett-Packard Company shall not be liable for technical or editorial errors or omissions contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material. The information in this document is provided "as is" without warranty of any kind, including, but not limited to, the implied warranties of merchantability and is subject to change without notice. The warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty.



Microsoft, Windows, and ActiveSync, are registered trademarks or trademarks of Microsoft Corporation. Intel is a registered trademark of Intel Corporation in the United States and/or other countries. Macromedia, Flash and Macromedia Flash are registered trademarks or trademarks of Macromedia, Inc. in the United States and/or other countries. Adobe, Acrobat and Acrobat Reader are trademarks or registered trademarks of Adobe Systems Incorporated. All other product names mentioned herein may be trademarks of their respective companies.

