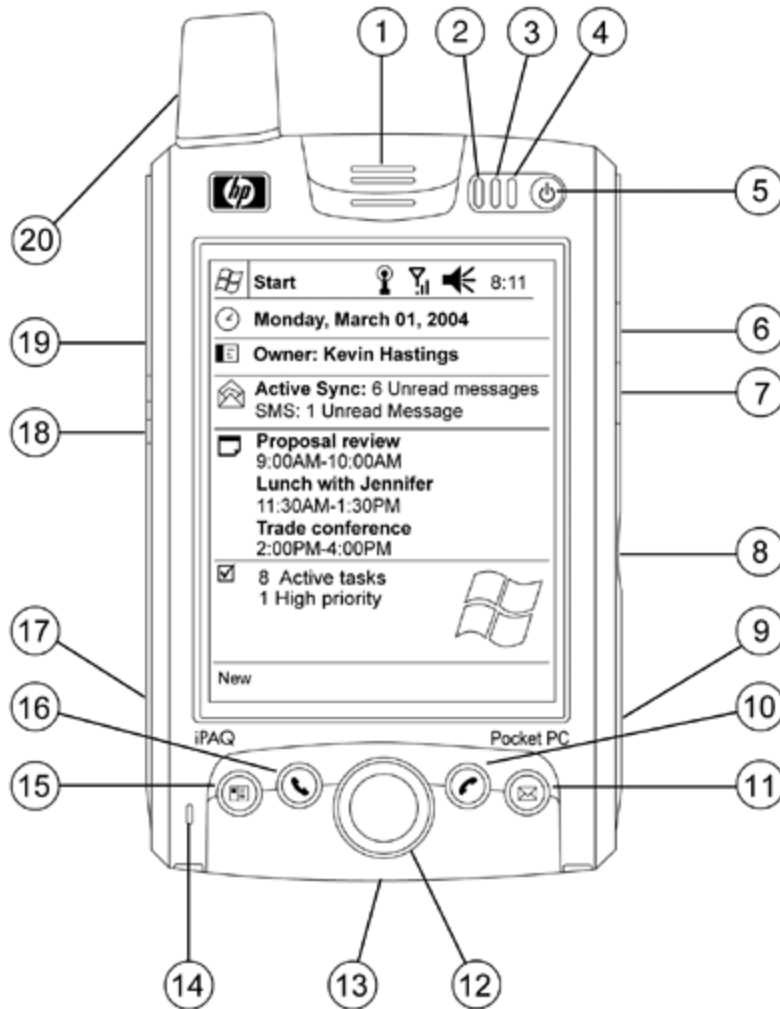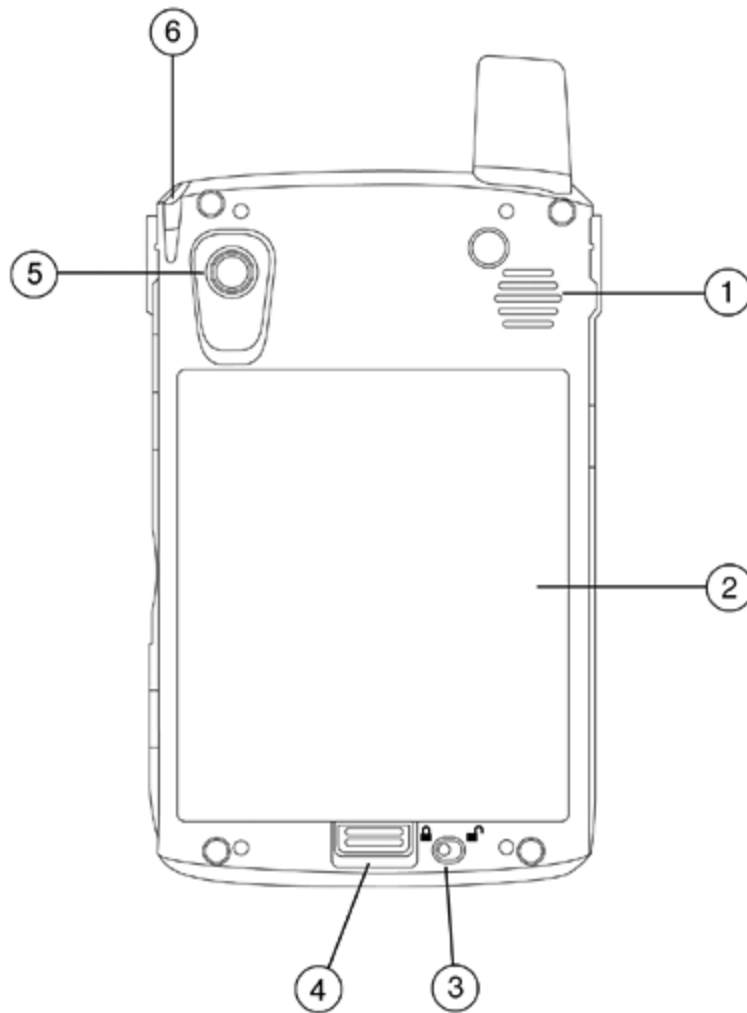# QuickSpecs

Overview

1. Phone Receiver
2. GSM/GPRS LED Indicator
3. Bluetooth LED Indicator
4. WLAN LED Indicator
5. Power Button with Charging/Notification LED
6. Volume Up Button
7. Volume Down Button
8. SD Expansion Card Slot
9. Camera Button (on select models)
10. Phone End Button
11. Inbox Button
12. 5-Way Navigation Button
13. Charging/Communications Port
14. Microphone
15. Contacts Button
16. Phone Send Button
17. Soft Reset
18. Voice Record Button
19. Headset Connector
20. Antenna

Overview

1.	Hands-free Speaker	4.	Battery Latch
2.	Removable Battery	5.	Camera Lens (on select models)
3.	Battery Lock	6.	Stylus

At A Glance

- Integrated GSM/GPRS[1]
- Integrated WLAN 802.11b[1]
- Integrated Bluetooth®[1] wireless technology
- Integrated Camera (on some models)
- Integrated SD expansion slot
- Microsoft® Windows Mobile™ 2003 software for Pocket PC – Phone Edition
- 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 GSM/GPRS infrastructure, a standard wireless LAN infrastructure, other devices enabled with Bluetooth wireless technology, and a service contract with a wireless network airtime provider may be required for applicable wireless communication. GPRS Wireless Internet access requires a separately purchased service contract. Check with wireless network service providers for availability and coverage in your area. Not all web content available.
- Product appearance may vary by wireless carrier

QuickSpecs

Standard Features

Models

iPAQ Pocket PC h6315 - GSM/GPRS, WLAN, Bluetooth, Camera - with SIMM for T-Mobile

FA239A#ABA – US Commercial, English

iPAQ Pocket PC h6315 - GSM/GPRS, WLAN, Bluetooth, Camera - no SIMM for T-Mobile

FA345A#ABA – US Commercial, English

iPAQ Pocket PC h6320 – *GSM/GPRS, WLAN, Bluetooth, no Camera*

FA316A#ABA – US Commercial, English

iPAQ Pocket PC h6325 – *GSM/GPRS, WLAN, Bluetooth, Camera*

FA315A#ABA – US Commercial, English

iPAQ Pocket PC h6340 – *GSM/GPRS, WLAN/Bluetooth, no Camera*

FA203A#ABU – UK
FA203A#ABB – Euro
FA203A#ABF – France
FA203A#ABZ – Italy
FA203A#ABE – Spain
FA203A#ABD – German

iPAQ Pocket PC h6365 – *GSM/GPRS/WLAN/Bluetooth, Camera*

FA239A#UUF – APD
FA239A#ARE – Malaysia
FA239A#ABG – Australia/New Zealand
FA239A#AB5 – Hong Kong
FA239A#AB0 – Taiwan

Processor	Texas Instruments OMAP™ 1510	
Memory	SDRAM	64-MB (55-MB user accessible)
	ROM	64-MB
		Up to 20-MB iPAQ File Store (varies by model)
Display	Type	Transflective type TFT color with LED backlight
	Number of Colors	64K color (65,536 colors) 16-bit
	Touch Screen	Yes
	Resolution (W x H)	240 x 320 pixels
	Dot Pitch	0.24 mm
	Viewable Image Size	3.5 in (89 mm)

Standard Features

Camera (on select models)	**Resolution**	VGA
	Image Quality	640 x 480 pixels
	Minimum Illumination	5 lux
	File Format Supported	JPEG

Hardware Buttons/ Reset Buttons	One power button, one Voice Record button, one Soft Reset button, Volume up/down buttons, Camera button (on select models), Contacts button, Inbox button, and Send and End buttons (All buttons are programmable except for Send, End and Reset buttons).

Stylus	One – Included in the box

Audio	Integrated microphone, receiver, speaker and one 3.5 mm stereo headphone jack, MP3 stereo (through audio jack or speaker)
	Hands-free speaker phone

Indicators	**Power Button**	Charge and Notify indicators
		Blinking green – notify
		Blinking amber – charging
		Solid amber – full charge
	LED 1 – GSM/GPRS	Blinking green LED – radio ON with signal
		Blinking amber LED – radio ON without signal
	LED 2 – Bluetooth	Blinking blue LED – radio ON
	LED 3 – Wi-Fi	Blinking green LED – radio ON with signal
		Blinking amber LED – radio ON without signal
	Phone Notification	Vibrate
		Audible
		Visual message on the display

Cradle Interfaces	**Connector**	1 – 22 pin
	DC Power jack connector for AC/DC Adapter connection	1 (may vary by model)
	Additional battery charger	Charge additional slim or extended battery

Other interfaces	**IrDa** – Supported **USB** – Supported via cradle interface **Serial** – There is no generic RS-232 serial support
	NOTE: Some HP authorized options may be supported. See http://www.hp.com/go/ipaqaccessories.

SD Slot	Support 1-bit SDIO and SD/MMC type memory standard

QuickSpecs

Standard Features

Power Supply	Battery	Removable/Rechargeable 1800 mAh Lithium-Ion user swappable battery. Optional extended 3600 mAh Lithium-Ion battery available for purchase (http://www.hp.com/go/ipaqaccessories).
	AC Power	AC Input: 100~240 Vac, 50/60 Hz, AC Input current: 0.3 Aac max
		Output Voltage: 5Vdc (typical), Output Current: 2A (typical)

NOTE: 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.
Based on PRD TW.09 measurements to GSM Association/ECTEL Battery Life Measurement Technique Document.

AC Adapter	**Dimensions** (H x W xD)	3 x 1.9 x 1.8 in (76 x 48 x 44 mm - including prongs), (may vary by model)	
	Cord Length (approx.)	6 ft (1.83 m)	
	Power Supply Ratings	Voltage Range	100 to 240 V Switching
		Input Current	0.3 Aac
		Input Frequency	50 to 60 Hz
		Output Voltage	5 VDC
		Output Current	2 Amp

System Unit	**Dimensions** (H x W x D)	5.42 x 2.94 x .82 in (137.64 x 74.6 x 20.8 mm)	
	Weight	6.7 oz (190 g)	
	Operating Temperature	32° to 104° F (0° to 40° C)	
	Storage Temperature	-4° to 140° F (-20° to 60° C)	
	Operating Humidity	90% RH	
	Regulatory Marks	Electrical	FCC Class B, UL or CSA NRTL
		Safety	C-UL, NOM

Ergonomic Design Features	4 programmable application launch buttons – defaults Inbox, Contacts, Voice Recorder and Camera buttons (may vary by model)
	Rubber sides for comfortable grip

Operating System	Microsoft® Windows Mobile™ 2003 software for Pocket PC – Phone Edition
	Pocket versions of Microsoft software are included (Outlook, Word, Excel and Internet Explorer for Pocket PC)

Operating System Applications	Powered by Microsoft® Windows Mobile™ 2003 for Pocket PC – Phone Edition 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)

Additional Software and links	Outlook 2002, Microsoft ActiveSync 3.7.1 (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).

Removable Keyboard	26 alpha-numeric keys with 2 application buttons, and send/end buttons – (Included in box on some models)

Wired Ear Bud Headset	3.5mm plug with single earbud – Included in box. Optional stereo headsets available at http://www.plantronics.com.

Standard Features

Service and Support	One-year parts and labor in most regions; 90 days technical support for software in most regions. Additional offers may vary by region.

HP Exclusive Applications iPAQ Wireless: utility to manage wireless connections
HP Profiles: set and name profiles to be used at different times for different functions, such as ring type, volume, brightness and wireless settings
Bluetooth Manager
iPAQ File Store: non-volatile storage in flash ROM
iPAQ Backup: utility for Backup/Restore to Main Memory, Memory Card or iPAQ File Store
HP Image Capture: application to take digital photographs with the integrated camera (on some models)
HP Image Zone for Pocket PC: application to view, edit images and create slide shows
HP Image Transfer: application to transfer digital photographs from the iPAQ to your personal computer
Utilities: Self Test, iPAQ Audio, Power Status

NOTE: Programs may vary based on model. Wireless carrier specific models may contain different applications.

Companion CD from HP

	Full Versions	**Trial Versions**
Applications	Westek ClearVue Suite	CommonTime mNotes (30-day trial)
	HP Mobile Print Center	XcelleNet, Afaria Device Management (demo version)
	HP Image Transfer	HP Wireless Presenter-to-Go
	HP TTY Support	Intellisync Email Accelerator Client
	Pointsec File Encryption	
CD Links	Extended Systems Mobile Groupware Client	
	Good Technology Goodlink Wireless Messaging	
	Handango	

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

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

Standard Features

GSM/GPRS Specifications[1]	Technology	Global voice and data wireless network (GSM – Global System for Mobile Communications/GPRS – General Packet Radio Services)
	Regulatory	Compliant with ETSI GSM Phase 2+ standard
	Operation	Quad band GSM/GPRS (GSM 850/900/1800/1900 MHz)
	Power class	Class 4 (2W @ 850/900 MHz)
		Class 1 (1W @ 1800/1900 MHz)
	GPRS data features	Class B GPRS Multi slot Class 10
		Coding Schemes: CS1 to CS4
	GSM voice features	Full Rate, Enhanced Full Rate, Adaptive Multi-Rate (FR/EFR/AMR)
		Echo cancellation and noise reduction
		Full duplex hands free
	GSM Data	Circuit Switched Data – GSM Transparent and non-transparent (NT) data
	Supplementary Services Supported	Call forwarding, Call barring
		Multiparty
		Calling Line Identity
		Call Waiting and Call Hold
		USSD Phase 1 (Mobile Terminated Operation Only)
	Messaging Services	SMS (Short Message Service) for GSM and GPRS, both mobile-originated and mobile-terminated SMS
		MMS (Multimedia Message Service)
		Cell Broadcast
	SIM	SIM standards, Phase 1,2, 2+, CPHS
	Carrier certification	See http://www.hp.com (search for iPAQ h6000 certifications)
	Agency certification	UL, FCC, Industry Canada, CE, IDA, C-Tick
	Ring Tones file formats	MIDI Type 0, WMA, WAV

NOTE:

[1] A GSM/GPRS infrastructure, and a service contract with a wireless network airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with wireless service providers for availability and coverage in your area. Wireless access point required and is not included. Wireless Internet use requires separately purchased Internet service contract. Not all web content available.

Standard Features

WLAN Specifications[1,2]

Technology	High-speed wireless access to the Internet, email and corporate data
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 2.497 GHz (Japan)
Antenna type	Embedded Antenna
Security	WEP 64/128-bit compliant to IEEE 802.11 Compliant to 802.1X (EAP-TTLS, EAP-TLS, PEAP) LEAP, WPA
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 – Packet Error Rate (8E-2)	11 Mbps: <-80 dBm 5.5 Mbps: <-82 dBm 2 Mbps: <-86 dBm 1 Mbps: <-89 dBm
Maximum Receive Level	-10dBm (1/2/5.5/11 Mbps)
Output Power (approximately)	15 dBm
Power Management	Radio On/Off control through Microsoft Connection icon, (need to verify) Power Save mode available in Power Settings
Power Consumption	Transfer mode: < 300 mA, average Receive mode: < 200 mA, average
Power Saving Option	802.11 Compliant Power Saving, idle mode 20 mA
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Protocols Supported	TCP/IP IPX/SPX UDP
Operating Distance	Up to 1000 feet – Open sight
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 301 489-6 Low Voltage Directive IEC950 UL, CSA, and CE Mark

NOTE:

[1] A standard WLAN infrastructure and a service contract with a wireless network airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with wireless service providers for availability and coverage in your area. Not all web content available.
[2] Wireless access point required and is not included. Availability of public wireless access points limited. Wireless Internet use may require separately purchased Internet service contract.

Standard Features

Bluetooth® **Specifications** [1]	**Technology**	High-speed, low-power, short-range wireless communication with other Bluetooth devices
	Bluetooth specification	1.1 compliant (2.4-GHz Industrial Scientific Medical Band)
	System interface	High-speed UART processor interface
	User Interface	Bluetooth Manager
	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 30 mA — typical RX current at approximately 50 mA
	Receiver sensitivity	-83 dBm
	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 Server Profile
LAN Access Profile
Object Push Profile
Personal Area Networking Profile
Basic Printing Profile
Hard Copy Replacement Profile (printing)
Headset Profile
Handsfree Profile

Usage Models

Service Discovery
Determine what Bluetooth devices are within range and support authorization

Handsfree Operation
Make and receive phone calls using a Bluetooth headset or handsfree system

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 PDAs and PCs

Dial Up Networking Server
Wireless link to WAN for Bluetooth enabled notebook or other access device [1]

LAN Access
Wireless link to Corporate LAN using Bluetooth and appropriate Bluetooth access point [1]
Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP [1]
Access the Internet by connecting to your desktop or notebook over Bluetooth and using its network connection [1]

Generic Object Exchange and Object Push
Exchange business cards, tasks, documents, appointments and more [1]

Personal Area Networking
Collaborate, chat, play games, exchange data [1]
Adhoc peer to peer networking [1]

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 supported 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

NOTE:
[1] A standard Bluetooth wireless infrastructure and/or other devices enabled with Bluetooth may be required for applicable wireless communication.

Options

NOTE: Optional accessories are available at additional cost.

Memory/Storage	128 MB SD Memory Card	FA135A#AC3
	256 MB SD Memory Card	FA136A#AC3
	512 MB SD Memory Card	FA184A#AC3
Power	1800 mAh Lithium Ion Standard Battery	FA235A#AC3
	3600 mAh Lithium Ion Extended Battery	FA236A#AC3
	Automobile Adapter	FA125A#AC3
	Charger Adapter	FA133A#AC3
	AC Adapter	FA130A#xxx
Synchronization	Desktop Cradle	FA234A#AC3
Input Devices	Stylus Three-pack	FA237A#AC3
	SDIO Camera (Photosmart Mobile Camera)	FA185A#ABA (U.S.)
	Wireless Bluetooth Foldable Keyboard	FA287A#AC3
Navigation	iPAQ Navigation System – (U.S. only)	FA196A#ABA
Cases	Expandable Belt Case	FA117A#AC3
	Leather Belt Case	FA350A#AC3
	Custom Cases: to view and order go to: http://www.casesonline.com	

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