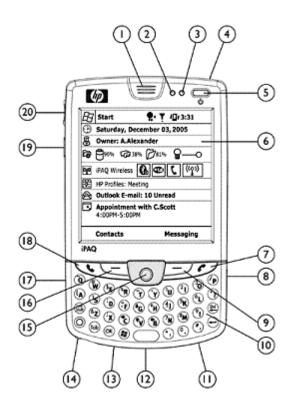
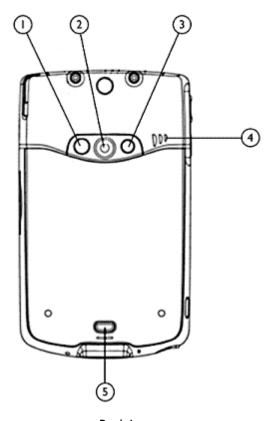
Overview



### Front Image

- 1. Speaker
- 2. Charging/Notification LED indicator 12. 22-pin charge, sync connector
- 3. Bluetooth/Wi-Fi LED
- 4. Stylus
- 5. Power button
- 6. Color display
- 7. End call button
- 8. Mini-SD slot (side)
- 9. Right softkey
- 10. Alphanumeric keyboard with LED backlight

- 11. Reset button
- 13. Microphone
- 14. Stereo headphone/mic jack
- 15. 5-way Navigation button
- 16. Left softkey
- 17. Infrared (IR) window (side)
- 18. Answer/Send button
- 19. Digital Camera button
- 20. Volume up/down slider (side)



### Back Image

- 1. Camera LED light (hw6945 only)
- 2. HP Digital Camera lens (hw6945 only)
- 3. Mirror (hw6945 only)
- 4. Speaker
- 5. Battery cover

Overview

### At A Glance

- Integrated Antenna
- Integrated Quad band GSM/GPRS/EDGE wireless radio with automatic band transition<sup>1,2,3,4</sup>
- Integrated GPS Receiver<sup>5</sup>
- Integrated Wi-Fi (802.11b)
- Integrated Bluetooth® 1.2 wireless technology
- Intel® PXA270 Processor 416 MHz
- Integrated HP Photosmart 1.3 MP Camera (hw6945 only)
- Integrated alphanumeric keyboard
- Integrated miniSD slot (memory only)
- Integrated IrDA SIR
- Removable/rechargeable 1200 mAh 3.7 Volt, Lithium-ion battery, 1800 mAh extended battery available
- 3.0" transflective TFT with 64K color LED backlit display
- Microsoft® Windows Mobile™ 5.0 for Pocket PC, Phone Edition, with Messaging and Security Feature Pack
- Mobile versions of Microsoft Office software include (Word®, Excel®, PowerPoint® and Internet Explorer®)

#### **NOTES:**

<sup>1</sup> A standard GSM/GPRS/EDGE infrastructure, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. GSM/GPRS/EDGE Wireless Internet access requires separately purchased Internet service contract. Check with service provider for availability and coverage in your area. Not all web content available. GPRS/EDGE may not be available in all networks. GPRS/EDGE data transmission speeds may vary based upon network capabilities and other conditions. Establishment and continuation of a GPRS/EDGE connection depends on network availability, provider support and signal strength.

<sup>2</sup> EDGE (Enhanced Data for Global Evolution) is a global standard for wireless wide-area data communication being rapidly deployed by GSM carriers worldwide. Actual download speeds may vary. Coverage is subject to transmission limitations and terrain, system, capacity and other limitations. Not all features and service options are available in all areas.

<sup>3</sup> Telephone service requires separately purchased contract with a telephone service provider with coverage in your service area. Additional fees may apply for some features, check with your service provider.

4 Normal GSM Data Calls (CSD) are not basic GSM data services. These services may not be available via all operators, and may require separate subscription. Maximum connection speed is used in defining maximum speed. The GSM Operator may change the speed of connection and reduce time slots at its discretion if the network is congested. These actions may cause lower total data rate than the requested data rate.

<sup>5</sup> GPS Navigation software is included. Purchase of additional maps and/or software may be required to enable some features or allow navigation in certain areas. Availability of maps is limited. Map coverage may vary and is not guaranteed.



### Standard Features

### Models

HP iPAQ hw6945 Mobile Messenger – GSM/GPRS/EDGE, Wi-Fi, Bluetooth, GPS, w/ camera – service available from HP FA745AA#ABA

HP iPAQ hw6940 Mobile Messenger – GSM/GPRS/EDGE, Wi-Fi, Bluetooth, GPS, w/o camera – service available from HP FA743AA#ABA

Processor Intel® PXA270 Processor 416 MHz

NOTE: Intel's processor numbering is not a measurement of higher performance.

Memory User Available Memory 45 MB available for persistent user storage

64 MB SDRAM for running applications

Display Type Transflective TFT QVGA color with LED backlight with power save mode

Number of Colors 64K color (65,536 colors) 16-bit

Touch Screen Yes

**Resolution** (W x H) 240 x 240 pixels

Dot Pitch 0.24 mm

Viewable Image Size 3.0 in (75 mm) diagonal

System Unit Dimensions (H x W x D) 4.65 x 2.8 x 0.71 in (118 x 71 x 18 mm)

NOTE: Not including the additional 0.12 in (3 mm) in depth for the

navigation button

Weight 6.33 oz (179.45 g) with battery; 5.28 oz (149.69 g) without battery

Operating Temperature  $32^{\circ}$  to  $104^{\circ}$  F (0° to  $40^{\circ}$  C) Storage Temperature  $-4^{\circ}$  to  $140^{\circ}$  F ( $-20^{\circ}$  to  $60^{\circ}$  C)

Operating Humidity 90% RH

Regulatory Marks Environmental: Wee logo

All required regulatory marks for the intended markets

GPS Receiver<sup>6</sup> Integrated high sensitivity GPS receiver with HP iPAQ Quick GPS Connection technology. Quick GPS

Connection technology is a software application residing on the device that enables a faster connection time for enhanced GPS performance. For some models, GPS Navigation software and maps must be

purchased separately.

GPS Radio Global Locate solution

• High sensitivity GPS signal detection

On-chip Dopplar measurement and navigation data decoding

• Companion software driver supports autonomous GPS and assisted GPS modes

### Standard Features

HP Photosmart Camera (on select models)

Resolution Image Quality File Format Supported SXGA, 1.3 Mega pixels CMOS 1280 x 1024 pixels

Still image formats – JPEG:

- SXGA 1280 x 1024
- VGA 640 x 480
- QVGA 320 x 240
- QQVGA 160 x 120

Video formats - 3GP

- CIF 352 x 288
- QCIF 176 x 144
- SQCIF 128 x 96

High Quality F/2.8 Lens, with focus set to 120cm

Ability to assign GPS location to photos as they are taken

LED light

Self-portrait mirror

Hardware Buttons/ Reset Buttons Power button with press and hold functionality, 1 reset button, 2 soft key buttons, 1 voice record/camera button (dual function), 1 two-way up/down volume control button, 1 phone answer/send button with green phone icon, 1 phone end button with red phone icon, 1 5-way navigation button, and built-in alphanumeric keyboard with LED backlight.

Stylus

One - Included in the box

Audio

**Input** Voice recording, built-in speakerphone, microphone on bottom of unit,

microphone input jack (combined with headphone jack)

Output

Speaker designed for voice playback, built-in speakerphone on the back of the device, speaker on front of unit for handset earpiece audio, 2.5 mm

the device, speaker on from of unit for handset earpiece audio, 2.5 mm

headphone/microphone jack with stereo sound

The audio driver supports 8.0, 11.025, 16, 22.05 and 44.1 KHz playback sample rates.

Audio codecs: WMA, MP3, Simple MIDI, AMR, polyphonic MIDI



Standard Features				
Indicators	LED 1 – Charge and Notify	Flashing Green LED — within GSM/GPRS/EDGE coverage area Flashing Amber LED — event notification / alarm Solid Red LED — AC in and battery or battery cover is absent Solid Amber LED — battery charging (Charger connected) Solid Green LED — battery fully charged (Charger connected) Flashing Red LED — low battery warning Flashing Blue LED — Bluetooth ON Flashing Blue LED — WiFi ON Vibrate Audible Visual message on the display		
	LED 2 – Bluetooth			
	· · · ·			
	Phone Notification			
	Cradle Interfaces			
Other Interfaces	IrDA (SIR)			
Omer micraces	USB 1.1 Client – supported via HP standard 22-pin cradle interface			
	Serial RS232 – supported via HP standard 22-pin cable interface (cable must be purchased separately)			
	Serial RS232 – supported	d via HP standard 22-pir	n cable intertace (cable must be purchased separately).	
		•		
	Serial RS232 – supported NOTE: Some HP authorized http://www.hp.com/go/ip	zed options may not be		
Mini-SD Slot	NOTE: Some HP authoriz	zed options may not be soaqaccessories.		
Mini-SD Slot Power	NOTE: Some HP authoriz	removable/recharged Optional extended 18	able 1200 mAh Lithium-ion (user replaceable). 800 mAh Lithium-ion battery available for purchase	
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Power	NOTE: Some HP authorizhttp://www.hp.com/go/ip  Supports 4-bit mini-SD m  Battery  Battery Performance  NOTE: Talk, standby, and usage pattern of an indivicapabilities, GPS and baccompositions (H x W x D)  Cord Length (approx.)	Removable/recharged Optional extended 18 (http://www.hp.com/standby time: up to 4 hor Standby time: up to 7 d usage times are approcidual user and the configurable will significantly at 1.9 x 1.8 in (76 x 6 ft (1.83 m) Voltage Range Input Current	able 1200 mAh Lithium-ion (user replaceable). 800 mAh Lithium-ion battery available for purchase go/ipaqaccessories).  urs ' days eximate and depend on the network configuration, the guration of the handheld. Use of internal wireless decrease battery run time.  448 x 44 mm – including prongs)  100 to 240 Vac 0.3 Aac max	



### Standard Features

#### **Operating System**

Microsoft® Windows Mobile™ 5.0 software for Pocket PC, Phone Edition with Messaging and Security Feature Pack

Mobile versions of Microsoft Office software include (Word®, Excel®, PowerPoint® and Internet Explorer)

### Operating System Applications for Phone Edition

Powered by Microsoft® Windows Mobile™ 5.0 – Phone Edition: Calendar, Contacts, Tasks, Voice Recorder, Notes, Word Mobile, Excel Mobile, PowerPoint Mobile, Internet Explorer Mobile, Windows Media Player 10 Mobile, Calculator, Solitaire, Bubble Breaker, Messaging, File Explorer, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, and Memory.

#### In the box

HP iPAQ hw6940 or hw6945 Mobile Messenger, lithium-ion 1200 mAh removable/rechargeable battery, removable flip cover, wired stereo headphones with 2.5mm jack, AC adapter, USB/Serial synchronization cradle, stylus, holster, Product Information Guide, Getting Started CD, HP Navigation Maps and Software 60-day Trial

### Additional Software and Links

Microsoft ActiveSync 4.1 (Desktop device synchronization) and links to Microsoft websites for additional downloadable applications

**NOTE:** Some programs may require purchase of additional desktop software to utilize Pocket PC versions.

### Service and Support

One-year parts and labor limited warranty; 90 days technical support for software. Support provided by HP.

### **HP Exclusive Applications**

- HP Photosmart Camera Software capture digital photos and video with the built-in 1.3 MP camera; attach a GPS location to photos as you capture them.
- HP Photosmart Mobile Software view, organize and share photos, videos.
- iPAQ Wireless with Today Screen plug-in manage and control your phone, Wi-Fi, Bluetooth, and GPS wireless connections.
- HP Profiles with Today Screen plug-in group settings as a profile to be used at different times of the day; settings include ring type, volume, screen brightness, wireless settings, etc.
- Bluetooth Manager manage your Bluetooth connections and settings.
- Today Panel Lite one touch access from Today Screen to device status: battery, memory, and backlight settings.
- HP Help and Support one location for all help, warranty, and support information.
- HP QuickStart Tour provides information on how to use key features of the HP iPAQ.
- Modem Link use the HP iPAQ as a modem to wirelessly connect a notebook PC to the Internet.
- SIM Manager manage the Contacts on your SIM card
- Microsoft Pocket Streets 2006 transforms your HP iPAQ into a personal guide to get you where
  you need to go.
- Java Virtual Machine
- OMA DRM 1.0 compliant



### Standard Features

Companion CD from HP Full Versions

Applications ActiveSync 4.1

Windows Media Player 10 Desktop

HP Protect tools secured by CREDANT Technologies

HP Photosmart Premier Software

**HP** Image Transfer

HP Navigation Maps and Software – 60-day trial (NA only)

HP iPAQ GPS Quick Connect Utility

Funk Odyssey Real Player 10

Phone Data Manager for PC

CD Links HP Web Registration

HP Worldwide Phone Numbers

HP Software Store Adobe Reader for PC

Microsoft map download website (Microsoft Pocket Streets preinstalled, maps

for use with applications)

2006 – Voice Command for Windows Mobile Pocket MSN for Windows Mobile-based devices

HP Navigation Maps and Software – to purchase (NA only)

### Additional Documentation

Additional Product Information, and HP Important Safety Information

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

Regulatory Compliance Certifications UL, Industry Canada, CE, IDA, C-Tick, CCC, RTA, NAL, NZ DoC, NTC, IDA,

DGT, SIRIM, PTA, GOST, SASO, SABS, PTD, JTB, WPC, DGPT, CIT, MoC,

ICASA, Etisalat, TTA, etc.

GCF 3.16 PTCRB 3.2.1

RoHS or WEE compliance

Bluetooth 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)

**Regulatory** Compliant with ETSI GSM Phase 2+ standard

Wi-Fi Certification Wi-Fi logo certification including WPA/TLS

USB 1.1 client (2.0 full speed)



### Standard Features

GSM/GPRS/EDGE Specifications<sup>1,2</sup>

GPRS/GSM/EDGE Quad ENS, NACC, and Extended uplink TBF support

band Global voice and data wireless network

Simultaneous operation with Wi-Fi & Bluetooth

Technology<sup>1,2,3,4</sup> GSM (Global System for Mobile Communications)

> **GPRS** (General Packet Radio Services) **EDGE** (Enhanced Data for Global Evolution) Global voice and data wireless network

Quad band GSM/GPRS / EDGE (GSM 850/900/1800/1900 MHz) Operation

Power class Class 4 (2W @ 850 MHz)

Class 4 (2W @ 900 MHz)

Class 1 (1W @ 1800/1900 MHz)

GSM 850 8-PSK Class E2 GSM 1900 8-PSK Class E2 GSM 900 8-PSK Class E2 GSM 1800 8-PSK Class

**EDGE** features EGPRS Class B

Multi slot Class 10

**PBCCH** 

Support for E-GPRS coding schemes MCS1 to MCS9 in both the uplink and

downlink

**GPRS** data features Coding Schemes: CS1 to CS4

Network Mode 1-3

GSM voice features Half Rate, Full Rate, Enhanced Full Rate and Adaptive Multi-Rate

(HR,FR/EFR/AMR)

Echo cancellation and noise reduction

Full duplex hands free

Circuit switched data<sup>5</sup> Normal Single Slot GSM Circuit Switched Data @ 9.6 Kbps Transparent and

Call forwarding, Call barring, Multiparty, Calling Line Identity

Non-Transparent Data

Supplementary services

supported

Call Waiting and Call Holding

Unstructured

supplementary service

data

USSD Phase 2 (MO & MT)

GEA1 Encryption

**Authentication** Password Authentication Protocol (PAP) or

Challenge Authentication Protocol (CHAP)

SMS (Short Message Service) for GSM, both mobile-originated and mobile-Messaging services

terminated SMS

MMS (Multimedia Message Service)

Cell Broadcast

SIM 1.8 / 3V SIM operation

Security: Pin 1 & 2 Control

SIM standards, Phase 1, 2, 2+, CPHS

SIM Toolkit Release 96+

Ring Tones file formats Simple MIDI Type 0, WMA, WAV, MP3, polyphonic MIDI



### Standard Features

Wi-Fi (802.11b) Specifications<sup>1</sup> **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-TLS, PEAP)

LEAP, WPA

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Points Required)

Modulation Technique Direct Sequence Spread Spectrum

Modulation SchemesDBPSK, DQPSK, CCKReceiver Sensitivity –11 Mbps: <-80 dBm</th>Packet Error Rate (8E-2)5.5 Mbps: <-82 dBm</th>

2 Mbps: <-86 dBm 1 Mbps: <-89 dBm

Maximum Receive Level -10dBm (1/2/5.5/11 Mbps)

Output Power 15 dBm

Power Management Radio On/Off control through iPAQ wireless

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 ft (3048 m) - Open sight

**Certifications** All necessary regulatory approvals for countries we support including:

WPA Wi-Fi approval

FCC (47 CFR) Part 15C, Section 15.247&15.249

ETS 300 328, ETS xxx 489-6 Low Voltage Directive IEC950

UL, CUL, and CE Mark

#### NOTES:

<sup>1</sup> A standard GSM/GPRS/EDGE infrastructure, Wi-Fi, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. GSM/GPRS/EDGE Wireless Internet access requires separately purchased Internet service contract. Check with service provider for availability and coverage in your area. Not all web content available. GPRS/EDGE may not be available in all networks. GPRS/EDGE data transmission speeds may vary based upon network capabilities and other conditions. Establishment and continuation of a GPRS/EDGE connection depends on network availability, provider support and signal strength.



### Standard Features

Bluetooth® Specifications<sup>1</sup> Technology

High-speed, low-power, short-range wireless communication with other

Bluetooth devices

TI-6150 solution

Single-Chip 0.13-um CMOS Bluetooth™ Solution

UART/PCM interface, OdBm transmit

Support for Co-existence with TI WLAN chipset (TNETW1100b)

Broadcomm stack and UI

Class 2/3 support

Compliance with Bluetooth Specification Version 1.2

Adaptive Frequency Hopping including master and slave classification

• Faster connection

Extended SCO-all new packet types

Synchronization

LMP improvements

Quality OF Service improvements

Bluetooth transmit inactive (FAA requirement)

Bluetooth® specifications High-speed, low-power, short-range wireless communication with other

Bluetooth devices.

1.2 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

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 Headset Profile Handsfree Profile

Advanced Audio Distribution Profile Audio/Visual Remote Control Profile





### Standard Features

#### 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 PDAs and PCs using ActiveSync

#### LAN Access

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>

### Generic Object Exchange and Object Push

Exchange business cards, tasks, documents, appointments and more 1

#### Personal Area Networking

Collaborate, chat, play games, exchange data<sup>1</sup> Adhoc peer to peer networking<sup>1</sup>

### **Basic Printing Profile**

Print to compatible Bluetooth printers without the need for cables or specific print drivers

#### NOTE:

<sup>1</sup> A standard GSM/GPRS/EDGE infrastructure, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. GSM/GPRS/EDGE Wireless Internet access requires separately purchased Internet service contract. Check with service provider for availability and coverage in your area. Not all web content available. GPRS/EDGE may not be available in all networks. GPRS/EDGE data transmission speeds may vary based upon network capabilities and other conditions. Establishment and continuation of a GPRS/EDGE connection depends on network availability, provider support and signal strength.



### Options

Accessories available from HP	NOTE: Optional accessories are available at additional cost.			
Memory/Storage	128 MB mini SD Memory Card	FA602A#AC3		
	256 MB mini SD Memory Card	FA603A#AC3		
	512 MB mini SD Memory Card	FA604A#AC3		
Power	1200 mAh Lithium Ion Standard Battery	FA404A#AC3		
	1800 mAh Lithium Ion Extended Battery	FA405A#AC3		
	Automobile Adapter	FA125A#AC3		
	Charger Adapter	FA133A#AC3		
	AC Adapter	FA372A#AC3		
	AC Adapter (RoHS complaint)	FA372B#AC3		
Synchronization	Desktop Cradle	FA260A#AC3		
	AutoSync Cable (USB and Serial)	FA122A#AC3		
Input Devices	Stylus Three-pack	FA261A#AC3		
	Foldable Keyboard	FA118A#ABA		
	iPAQ Bluetooth Folding keyboard	FA287A#AC3		
Headphones	Bluetooth Stereo Headphones	FA303A#AC3		
Cases	Leather Belt Case	FA160A#AC3		
	Premier Leather Case	FA662A#AC3		
	Premier Leather Belt Case	FA350A#AC3		
	Nylon Slimline Case	FA161A#AC3		
	Custom Cases: to view and order go to: http://www.casesonline.com.			



### **Options**

### **NOTES:**

- <sup>1</sup> A standard GSM/GPRS/EDGE infrastructure, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. GSM/GPRS/EDGE Wireless Internet access requires separately purchased Internet service contract. Check with service provider for availability and coverage in your area. Not all web content available. GPRS/EDGE may not be available in all networks. GPRS/EDGE data transmission speeds may vary based upon network capabilities and other conditions. Establishment and continuation of a GPRS/EDGE connection depends on network availability, provider support and signal strength.
- <sup>2</sup> EDGE (Enhanced Data for Global Evolution) is a global standard for wireless wide-area data communication being rapidly deployed by GSM carriers worldwide. Actual download speeds may vary. Coverage is subject to transmission limitations and terrain, system, capacity and other limitations. Not all features and service options are available in all areas.
- <sup>3</sup> Telephone service requires separately purchased contract with a telephone service provider with coverage in your service area. Additional fees may apply for some features, check with your service provider.
- <sup>4</sup> Normal GSM Data Calls (CSD) are not basic GSM data services. These services may not be available via all operators, and may require separate subscription. Maximum connection speed is used in defining maximum speed. The GSM Operator may change the speed of the connection and reduce time slots at its discretion if the network is congested. These actions may cause lower total data rate than the requested data rate.
- <sup>5</sup>GPS Navigation software is included. Purchase of additional maps and/or software may be required to enable some features or allow navigation in certain areas. Availability of maps is limited. Map coverage may vary and is not guaranteed.
- <sup>6</sup> While the GPS radio on your device is able to connect to the GPS satellites without enabling the Quick Connect for GPS feature, it may take a few minutes longer and even up to five minutes to locate the satellites without using the Quick Connect for GPS feature. User is required to enable Quick Connect fro GPS updates.

### HP iPAQ Mobile Messenger is a Windows Mobile<sup>™</sup>-based Pocket PC

For more information on the HP iPAQ Mobile Messenger series, visit our website at http://www.hp.com/go/iPAQ.

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