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You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ HP MINI 1101. You'll find the answers to all your questions on the COMPAQ HP MINI 1101 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual COMPAQ HP MINI 1101
User guide COMPAQ HP MINI 1101
Operating instructions COMPAQ HP MINI 1101
Instructions for use COMPAQ HP MINI 1101
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HP Mini 1101, HP Mini 110, HP Mini 110
by Studio Tord Boontje, and Compaq Mini
110
Maintenance and Service Guide



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. 141 x 1 Product description Category Description HP Mini 1101 HP Mini 110 HP Mini 110 by Studio Tord Boontje Compaq Mini 110 Product name HP Mini 1101 HP Mini 110 HP Mini 110 by Studio Tord Boontje Compaq Mini 110 Processor Intel® Atom™ N280 1.66-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB) Intel Atom N270 1.6-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB) Chipset Northbridge: 945GSE; 533-MHz bus speed Southbridge: ICH7M Graphics Intel® Graphics Media Accelerator 950 Universal Memory Architecture (UMA) graphics subsystem Panels All display assemblies include 1 webcam, 1 microphone, 1 speaker box, and 2 wireless local-area network (WLAN) antenna transceivers/cables; wireless wide-area network (WWAN) is optional for HP Mini 110 and Compaq Mini 110 models Wide aspect 16:9 ratio panels 10.1-inch high-definition AntiGlare (1366 × 768) LED 10.1-inch standard-definition AntiGlare (1024 × 576) LED 1 Category Description HP Mini 1101 HP Mini 110 HP Mini 110 by Studio Tord Boontje Compaq Mini 110 10.1-inch WSVGA (1024 × 600) LED Memory One customer-accessible/ upgradable memory module slot Supports up to 2 GB of system memory PC2-4200, 533-MHz, DDR2 Supports the following configurations: Mass storage devices 1024-MB total system memory (1024 × 1) 2048-MB total system memory (2048 × 1) Solid-state drive (SSD) based on multi-level cell (MLC) technology 32-GB Hard drive Supports all 9.5-mm, 6.35-cm (2.50-inch) parallel SATA hard drives (optional) 320-GB, 5400-RPM NOTE: Not supported by computers with Windows® XP Home SP3, ultra low-cost personal computer (ULCPC) edition installed.

250-GB, 5400-RPM NOTE: Not supported by computers with Windows XP Home SP3, ultra low-cost personal computer (ULCPC) edition installed. 160-GB, 7200-RPM 160-GB, 5400-RPM Optical drive Diskette drive Audio/Visual Supports external USB optical drives only Supports external USB diskette drives only high-definition (HD) audio Integrated speakers (2) Fixed integrated microphone Fixed integrated VGA webcam, 640 × 480 resolution, up to 30 frames per second 2 Chapter 1 Product description Category Description HP Mini 1101 HP Mini 110 HP Mini 110 by Studio Tord Boontje Compaq Mini 110 Modem Ethernet Wireless Supports external USB modems only Integrated 10/100 network interface card (NIC) 2 WLAN antennas built into display assembly Integrated WLAN by way of 802.



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11b/g/n and 802.11b/g WLAN modules Integrated WWAN by way of HP un2400 Mobile Broadband Module (optional) NOTE: Not available in HP Mini 110 models with Mobile Mi installed. External media cards Digital Media Slot (consumer models) or Media Card Reader (commercial models) with pushpush technology supporting: Memory Stick (MS) Memory Stick Pro (MSP) MultiMediaCard (MMC) Secure Digital (SDHC) Memory Card xD-Picture Card (XD) Internal media cards Two Mini Card slots: Full-size Mini Card slot Half-size Mini Card slot Ports Audio-in/out (microphone/stereo headphone) RJ-45 (Ethernet, includes link and activity lights) USB (3) 3-pin AC power Keyboard/pointing device 92% keyboard TouchPad, with 2 TouchPad buttons and 2-way scrolling (taps enabled by default) 3 Category Description HP Mini 1101 HP Mini 110 HP Mini 110 by Studio Tord Boontje Compaq Mini 110 Power requirements 30-W UMA AC adapter (nonSmart) with localized cable plug support AC adapter connector on cable 6-cell lithium-polymer (Li-Pol) battery (2.55-Ah, 55-Wh), 6-hour target life 3-cell lithium-polymer (Li-Pol) battery (2.55-Ah, 28-Wh), 3-hour target life Security Operating system Supports HP Kensington Security Lock Preinstalled: Windows 7 Basic 32 Windows 7 Starter 32 Windows XP Home SP3, ultra low-cost personal computer (ULCPC) edition Windows Vista® Business 32 (with XP Pro image) HP Mobile Mi Serviceability End-user replaceable parts: AC adapter Battery (system) Hard drive Keyboard Memory module Solid-state drive 4 Chapter 1 Product description 2 External component identification Components included with the device may vary by region and model. The illustrations in this chapter identify the standard features on most device models. Top components TouchPad Component (1) (2) (3) (4) Left TouchPad button TouchPad TouchPad scroll zone Right TouchPad button Description Functions like the left button on an external mouse. Moves the pointer and selects or activates items on the screen. Scrolls up or down. Functions like the right button on an external mouse. Top components 5 Light Component Caps lock light Description On: Caps lock is on. 6 Chapter 2 External component identification Keys NOTE: Refer to the illustration that most closely matches your computer. Component (1) (2) (3) (4) Function keys fn key Windows® logo key Windows applications key Description Execute frequently used system functions when pressed in combination with the fn key. Executes frequently used system functions when pressed in combination with a function key. Displays the Windows Start menu. Displays a shortcut menu for items beneath the pointer. Top components 7 Component (1) (2) (3) (4) Function keys fn key Home key Program Switcher key Description Execute frequently used system functions when pressed in combination with the fn key. Executes frequently used system functions when pressed in combination with a function key. Returns to the Home Screen. Displays the Start New Program button from anywhere on the device. 8 Chapter 2 External component identification Front components Component (1) Power light Description On: The device is on. Blinking: The device is in the Sleep state (Windows Vista) or Standby (Windows XP or Mobile Mi). Off: The device is off or in Hibernation. When the device is off, slide the switch to turn on the device. When the device is on, briefly slide the switch to initiate Hibernation. When the device is in the Sleep state (Windows Vista) or Standby (Windows XP or Mobile Mi), briefly slide the switch to exit the Sleep state (Windows Vista) or Standby (Windows XP or Mobile Mi). When the device is in Hibernation, briefly slide the switch to exit Hibernation. (2) Power switch If the device has stopped responding and operating system shutdown procedures are ineffective, slide and hold the power switch for at least 5 seconds to turn off the device.

(3) (4) Drive light Battery light Blinking: The hard drive or flash drive is being accessed. On: A battery is charging. Blinking: A battery that is the available only power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. Off: If the device is plugged into an external power source, the light turns off when all batteries in the device are fully charged. If the device is not plugged into an external power source, the light stays off until the battery reaches a low battery level. Front components 9 Component (5) Wireless light Description Blue: An integrated wireless device, such as a wireless local area network (WLAN) device, is on. Amber: All wireless devices are off. (6) Wireless switch Turns the wireless feature on or off, but does not establish a wireless connection. NOTE: A wireless network must be set up in order to establish a wireless connection. 10 Chapter 2 External component identification Right-side components Component (1) (2) USB ports (2) Digital Media Slot (consumer models) or Media Card Reader (commercial models) Description Connect optional USB devices. Supports the following optional digital card formats: Memory Stick (MS) Memory Stick Pro (MSP) MultiMediaCard (MMC) Secure Digital (SD) Memory Card xD-Picture Card (3) (4) External monitor port RJ-45 (network) jack Connects an optional external display, such as a monitor or projector, to the device. Connects a network cable. Right-side components 11 Left-side components Component (1) Security cable slot Description Attaches an optional security cable to the device. NOTE: The security cable is designed to act as a deterrent, but it may not prevent the device from being mishandled or stolen.

(2) (3) (4) Power connector AC adapter light Vent Connects an AC adapter. Indicates AC power connection. Enables airflow to cool internal components. NOTE: The device fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

(5) (6) USB port Audio-out (headphone) jack/Audio-in (microphone) jack Connects an optional USB device. Produces sound when connected to optional powered stereo speakers, headphones, earbuds, a headset, or television audio. Also connects an optional headset microphone. WARNING! To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the Regulatory, Safety and Environmental Notices. NOTE: When an audio component is connected to the jack, the device speakers are disabled. The audio component cable must have a 4-conductor connector.



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12 Chapter 2 External component identification Display components Component (1) (2) Speakers (2) Internal display switch Description Produce sound. Turns off the display if the display is closed while the power is on. NOTE: The display switch is not visible from the outside of the device.

(3) Webcam Captures still photographs and videos. NOTE: To capture videos, you need to install additional webcam software. (4) (5) Webcam light Internal microphone On: The webcam is in use. Records sound. Display components 13 Bottom components Component (1) (2) (3) Battery bay Battery release latches (2) Vent Description Holds the battery. Release the battery from the battery bay. Enables airflow to cool internal components. NOTE: The device fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. (4) Memory module compartment Contains the memory module slot.

14 Chapter 2 External component identification Wireless antennas Component (1) WWAN antennas (2) (select models only)* Description Send and receive wireless signals to communicate with wireless wide-area networks (WWANs). NOTE: This option is not available on computers with Mobile Mi installed. (2) WLAN antennas (2)* Send and receive wireless signals to communicate with wireless local area networks (WLANs). *The antennas are not visible from the outside of the device. For optimal transmission, keep the areas immediately around the antennas free from obstructions.

To see wireless regulatory notices, refer to the section of the Regulatory, Safety and Environmental Notices that applies to your country or region. Wireless antennas 15 3 Illustrated parts catalog Service tag When ordering parts or requesting information, provide the computer serial number and model description provided on the service tag: (1) Product name: This is the product name affixed to the front of the device. (2) Serial number (s/n): This is an alphanumeric identifier that is unique to each product. (3) Part number/Product number (p/n): This number provides specific information about the product's hardware components. The part number helps a service technician to determine what components and parts are needed.

(4) Model description: This is the alphanumeric identifier used to locate documents, drivers, and support for the device. (5) Warranty period: This number describes the duration of the warranty period for the device. 16 Chapter 3 Illustrated parts catalog Device major components Item (1) Description Display assembly (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN on select models only) See Display assembly components on page 25 for a comprehensive list of display assembly spare parts. For use with black HP models only 10.1-inch, high-definition, AntiGlare display assembly (includes WWAN) 10.1-inch, high-definition, AntiGlare display assembly Spare part number 572407-001 572406-001 Device major components 17 Item Description 10.1-inch, standard-definition, AntiGlare display assembly (includes WWAN) 10.1-inch, standard-definition, AntiGlare display assembly 10.1-inch, WSVGA, AntiGlare display assembly (includes WWAN) Spare part number 571414-001 537646-001 579604-001 For use with pink HP models only 10.1-inch, high-definition, AntiGlare display assembly (includes WWAN) 10.

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Chapter 3 Illustrated parts catalog Item Description For use with international models For use only in Israel For use only in Italy For use only in Japan For use only in Latin America For use only in Portugal For use only in Russia For use only in Saudi Arabia For use only in South Korea For use only in Spain For use only in Switzerland For use only in Taiwan For use only in Thailand For use only in Turkey For use only in the United Kingdom For use only in the United States Spare part number 535689-B31 535689-BB1 535689-061 535689-291 535689-161 535689-131 535689-251 535689-171 535689-AD1 535689-071 535689-111 535689-AB1 535689-281 535689-141 535689-031 535689-001 For use only on models with Mobile Mi installed For use only in

Brazil For use only in French Canada For use only in Japan For use only in Latin America For use only in South Korea For use only in Taiwan For use only in Thailand For use only in the United States 535690-201 535690-121 535690-291 535690-161 535690-AD1 535690-AB1 535690-281 535690-001 For use on pink models only For use only in Bosnia, Croatia, Montenegro, Serbia, and Slovenia For use only in Brazil For use only in the Czech Republic For use only in Europe For use only in Finland, Norway, and Sweden For use only in France For use only in French Canada For use only in Germany 537954-BA1 537954-201 537954-221 537954-A41 537954-DH1 537954-051 537954-121 537954-041 Device major components 19 Item Description For use only in

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Bosnia, Croatia, Montenegro, Serbia, and Slovenia For use only in Brazil For use only in the Czech Republic For use only in Europe For use only in Finland, Norway, and Sweden For use only in France For use only in French Canada For use only in Germany For use only in Greece For use only in Hungary For use with international models For use only in Israel For use only in Italy For use only in Japan For use only in Latin America 537953-BA1 537953-201 537953-221 537953-A41 537953-DH1 537953-051 537953-121 537953-041 537953-DJ1 537953-211 537953-B31 537953-BB1 537953-061 537953-291 537953-161 20 Chapter 3 Illustrated parts catalog Item Description For use only in Portugal For use only in Russia For use only in Saudi Arabia For use only in South Korea For use only in Spain For use only in Switzerland For use only in Taiwan For use only in Thailand For use only in Turkey For use only in the United Kingdom Spare part number 537953-131 537953-251 537953-171 537953-AD1 537953-071 537953-BG1 537953-AB1 537953-281 537953-141 537953-031 537953-001 For use only with white HP and HP Mini 110 by Studio Tord Boontje models in the United States (3) Top cover (includes TouchPad)

For use with black and blue models only For use with pink HP models only For use with white HP models only For use with HP Mini 110 by Studio Tord Boontje models only 537622-001 537625-001 537624-001 579615-001 Mass storage devices NOTE: (4a) Each hard drive spare part kit and solid-state drive spare part kit includes a bracket and screws.

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Hard drive (select models only) See Mass storage devices on page 27 for a comprehensive list of hard drive spare parts.

(4b) Solid-state drive See Mass storage devices on page 27 for a comprehensive list of solidstate drive spare parts. (5) (6) (7) Heat sink assembly (includes replacement thermal material) Fan USB/audio board (includes cable) For use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 For use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199 537619-001

537613-001 537614-001 581325-001 (8) Power/battery pass-through board For use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 For use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199

Plastics/actuator Kit 537615-001 581326-001 537612-001 Device major components 21 Item (9a) (9b) (9c) Description Power switch and wireless switch actuators Memory module compartment cover Bezel for Digital Media Slot (consumer models) or Media Card Reader (commercial models) Wireless modules Spare part number (10) WLAN module WLAN/Bluetooth combination module Broadcom 4312 802.11/b/g/n WLAN module For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central

African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Grenada, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St.

Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe 518436-001 518436-002 575920-001 Broadcom 4312 802.11/b/g WLAN module For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States 504593-003 22 Chapter 3 Illustrated parts catalog Item Description For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Grenada, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe Spare part number 504593-004 (11) WWAN module NOTE: Not available for computers with Mobile Mi installed. 483377-002 HP un2400 Mobile Broadband Module (select models only) HP un2400 Mobile Broadband Module for use only with Verizon Wireless (select models only) 483377-003 WWAN module for use only in the People's Republic of China HP un2400 Mobile Broadband Module for use only in the People's Republic of China WWAN minicard module WWAN module for use only with Telefonica WWAN module for use only with Am Movil WWAN module for use only with AT&T (12) (13) RTC battery System board (includes processor and replacement thermal material) Includes Intel Atom N280 I.

66-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB) For use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 Includes Intel Atom N270 1.6-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB) For use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 537662-001 571370-001 571888-001 574246-001 531993-001 592625-161 592624-161 591612-001 537616-001 Device major components 23 Item Description Includes Intel Atom N280 I.



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66-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB) For use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199 Includes Intel Atom N270 1.6-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB) For use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199 Spare part number 579569-001 579568-001 (14) Memory module (PC2-5300, 533-MHz, DDR2) 512-MB (for use in HP Mini 110 and Compaq Mini 110 models only) 1024-MB 2048-MB 537663-001 537664-001 537665-001 (15) Base enclosure (includes 4 rubber feet) For use with black and blue models only For use with pink, white, and HP Mini 110 by Studio Tord Boontje models only 537611-001 591650-001 (16) Battery 6-cell lithium-polymer (Li-Pol) battery (2.55-Ah, 55-Wh) 3-cell lithium-polymer (Li-Pol) battery (2.55-Ah, 28-Wh) 537627-001 537626-001 24 Chapter 3 Illustrated parts catalog Display assembly components Item (1) (2) Description Hinge covers Display bezel For use with HP Mini 1101 and HP Mini 110 only For use with HP Mini 110 by Studio Tord Boontje models only For use with Compaq Mini 110 only Spare part number 537617-001 537650-001 581324-001 537644-001 537658-001 (3) Display Hinge Kit (Includes left and right display panel hinges) (4) (5) Speaker assembly (includes left and right cables) Display panel 10.1-inch high-definition AntiGlare 10.1-inch standard-definition AntiGlare 10.1-inch WSVGA AntiGlare 537621-001 572405-001 537656-001 579570-001 537660-001 (6) Webcam module Display Cable Kit (not illustrated, includes display/webcam cable and WLAN antennas) (7a) Display panel cable Display assembly components 25 Item (7b) Description WLAN antennas For use with high-definition and standard-definition display panels only For use with WSVGA display panels only Spare part number 537657-001 579571-001 581323-001 537655-001 (8) (9) (10) Microphone assembly WWAN antennas (not available on computers with Mobile M1 installed.) Display enclosure (includes logo) For use with black HP models only For use with pink HP models only For use with white HP models only For use with blue HP models only For use with HP Mini 110 by Studio Tord Boontje models only For use with Compaq models only Display Screw Kit (not illustrated) 537651-001 537654-001 537653-001 591649-001 579576-001 537645-001 538510-001 26 Chapter 3 Illustrated parts catalog Mass storage devices NOTE: Item (1) Each hard drive spare part kit and solid-state drive spare part kit includes a cable and bracket.

Description Hard drive (select models only) 320-GB, 5400-RPM 250-GB, 5400-RPM 160-GB, 7200-RPM 160-GB, 5400-RPM Hard Drive Hardware Kit (not illustrated) 591398-001 537635-001 590669-001 537634-001 537641-001 Spare part number (2) Solid-state drive 64-GB 32-GB 16-GB 8-GB Solidstate Drive Hardware Kit (not illustrated) 537640-001 537639-001 537638-001 537637-001 537642-001 Mass storage devices 27 Miscellaneous parts Description 30-W UMA AC adapter Bluetooth® adapter High-definition video decoder Power cords For use in Argentina For use in Australia For use in Brazil For use in Denmark For use in Europe For use in India For use in Israel For use in Italy For use in Japan For use in North America For use in the People's Republic of China For use in Singapore and the United Kingdom For use in South Africa For use in South Korea For use in Switzerland For use in Taiwan Rubber Kit (contains 4 device feet) For use with black and blue models only For use with pink, white, and HP Mini 110 by Studio Tord Boontje models only Screw Kit 537618-001 537618-002 537620-001 490371-D01 490371-011 490371-201 490371-081 490371-021 490371-D61 490371-BB1 490371-061 490371-291 490371-001 490371-AA1 490371-031 490371-AR1 490371-AD1 490371-111 490371-AB1 Spare part number 496813-001 574670-001 578237-001 28 Chapter 3 Illustrated parts catalog Sequential part number listing Spare part number 483377-002 483377-003 490371-001 490371-011 490371-021 490371-031 490371-061 490371-081 490371-111 490371-201 490371-291 490371-AA1 490371-AB1 490371-AD1 490371-AR1 490371-BB1 490371-D01 490371-D61 496813-001 504593-003 504593-004 Description HP un2400 Mobile Broadband Module (select models only) HP un2400 Mobile Broadband Module for use with Verizon Wireless only (select models only) Power cord for use in North America Power cord for use in Australia Power cord for use in Europe Power cord for use in Singapore and the United Kingdom Power cord for use in Italy Power cord for use in Denmark Power cord for use in Switzerland Power cord for use in Brazil Power cord for use in Japan Power cord for use in the People's Republic of China Power cord for use in Taiwan Power cord for use in South Korea Power cord for use in South Africa Power cord for use in Israel Power cord for use in Argentina Power cord for use in India 30-W UMA AC adapter Broadcom 4312 802.11/b/g WLAN module for use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States Broadcom 4312 802.11/b/g WLAN module for use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Grenada, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe Sequential part number listing 29 Spare part number 518436-001 518436-002 Description Broadcom 4312 802.



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11/b/g/n WLAN module for use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S.

Virgin Islands, and the United States Broadcom 4312 802.11/b/g/n WLAN module for use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, the People's Republic of China, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Grenada, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe WWAN minicard module Keyboard for use only in the United States on black and blue models with Windows operating system installed Keyboard for use only in the United Kingdom on black and blue models with Windows operating system installed Keyboard for use only in Germany on black and blue models with Windows operating system installed Keyboard for use only in France on black and blue models with Windows operating system installed Keyboard for use only in Italy on black and blue models with Windows operating system installed Keyboard for use only in Spain on black and blue models with Windows operating system installed Keyboard for use only in French Canada on black and blue models with Windows operating system installed Keyboard for use only in Portugal on black and blue models with Windows operating system installed Keyboard for use only in Turkey on black and blue models with Windows operating system installed Keyboard for use only in Greece on black and blue models with Windows operating system installed Keyboard for use only in Latin America on black and blue models with Windows operating system installed Keyboard for use only in Saudi Arabia on black and blue models with Windows operating system installed Keyboard for use only in Brazil on black and blue models with Windows operating system installed Keyboard for use only in Hungary on black and blue models with Windows operating system installed Keyboard for use only in the Czech Republic on black and blue models with Windows operating system installed Keyboard for use only in Russia on black and blue models with Windows operating system installed Keyboard for use only in Thailand on black and blue models with Windows operating system installed Keyboard for use only in Japan on black and blue models with Windows operating system installed 531993-001 535689-001 535689-031 535689-041 535689-051 535689-061 535689-071 535689-121 535689-131 535689-141 535689-151 535689-161 535689-171 535689-201 535689-211 535689-221 535689-251 535689-281 535689-291 30 Chapter 3 Illustrated parts catalog Spare part number 535689-A41 535689-AB1 535689-AD1 535689-B31 535689-BB1 535689-DH1 535690-001 535690-121 535690-161 535690-201 535690-281 535690-291 535690-AB1 535690-AD1 537611-001 537612-001 537613-001 537614-001 537615-001 537616-001 537617-001 537618-001 537618-002 537619-001 537620-001 537621-001 537622-001 537624-001 537625-001 537626-001 Description Keyboard for use only in Europe on black and blue models with Windows operating system installed Keyboard for use only in Taiwan on black and blue models with Windows operating system installed Keyboard for use only in South Korea on black and blue models with Windows operating system installed Keyboard for use only with international models on black and blue models with Windows operating system installed Keyboard for use only in Israel on black and blue models with Windows operating system installed Keyboard for use only in Finland, Norway and Sweden on black and blue models with Windows operating system installed Keyboard for use only in the United States on models with Mobile Mi installed Keyboard for use only in French Canada on models with Mobile Mi installed Keyboard for use only in Latin America on models with Mobile Mi installed Keyboard for use only in Brazil on models with Mobile Mi installed Keyboard for use only in Thailand on models with Mobile Mi installed Keyboard for use only in Japan on models with Mobile Mi installed Keyboard for use only in Taiwan on models with Mobile Mi installed Keyboard for use only in South Korea on models with Mobile Mi installed Base enclosure for use on black and blue models only (includes 4 rubber feet) Plastics/actuator Kit (includes power switch and wireless switch actuators, memory module compartment cover, and bezel for Digital Media Slot (consumer models) or Media Card Reader (commercial models)) Fan USB/audio board (includes cable) for use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 Power/battery pass-through board for use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 RTC battery Display assembly hinge covers Rubber Kit for use with black and blue models only (contains 4 device feet) Rubber Kit for use with pink, white, and HP Mini 110 by Studio Tord Boontje models only (contains 4 device feet) Heat sink assembly (includes replacement thermal material) Screw Kit Speaker assembly (includes left and right cables) Top cover for use on black and blue models only (includes TouchPad) Top cover for use on white HP models only (includes TouchPad) Top cover for use on pink HP models only (includes TouchPad) 3-cell lithium-polymer (Li-Po) battery (2.



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55-Ah, 28-Wh) Sequential part number listing 31 Spare part number 537627-001 537634-001 537635-001 537637-001 537638-001 537639-001 537640-001 537641-001 537642-001 537643-001 537644-001 537645-001 537646-001 537650-001 537651-001 537653-001 537654-001 537655-001 537656-001 537657-001 537658-001 537660-001 537662-001 Description 6-cell lithium-polymer (Li-Pol) battery (2.55-Ah, 55-Wh) 160-GB hard drive, 5400-RPM 250-GB hard drive, 5400-RPM 8-GB solid-state drive 16-GB solid-state drive 32-GB solid-state drive 64-GB solid-state drive Hard Drive Hardware Kit Solid-state Drive Hardware Kit 10.1-inch, standard-definition, AntiGlare display assembly for use with Compaq models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) Display bezel for use with Compaq models only Display enclosure (includes logo) for use with Compaq models only 10.1-inch, standard-definition, AntiGlare display assembly for use with black HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) Display bezel for use with HP Mini 1101 and HP Mini 110 only Display enclosure (includes logo) for use with black HP models only Display enclosure (includes logo) for use with white HP models only Display enclosure (includes logo) for use with pink HP models only WWAN antennas (not available on computers with Mobile Mi installed) 10.1-inch standard-definition AntiGlare display panel Display Cable Kit for use with high-definition and standard-definition display panels only (includes display panel/webcam cable and WLAN antennas) Display Hinge Kit (includes left and right display panel hinges) Webcam module System board (includes Intel Atom N270 I.

6-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB), and thermal replacement material for use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 512-MB memory module (PC2-5300, 533-MHz, DDR2, for use in HP Mini 110 and Compaq: Mini 110 models only) 1024-MB memory module (PC2-5300, 533-MHz, DDR2) 2048-MB memory module (PC2-5300, 533-MHz, DDR2) Keyboard for use with white HP and HP Mini 110 by Studio Tord Boontje models only in the United States Keyboard for use with white HP models only in the United Kingdom Keyboard for use with white HP models only in Germany Keyboard for use with white HP models only in France 537663-001 537664-001 537665-001 537953-001 537953-031 537953-041 537953-051 32 Chapter 3 Illustrated parts catalog Spare part number 537953-061 537953-071 537953-121 537953-131 537953-141 537953-161 537953-171 537953-201 537953-211 537953-251 537953-281 537953-291 537953-A41 537953-AB1 537953-AD1 537953-B31 537953-BA1 537953-BB1 537953-BG1 537953-DH1 537953-DJ1 537954-001 537954-031 537954-041 537954-051 537954-061 537954-071 537954-121 537954-131 537954-141 537954-161 537954-171 Description Keyboard for use with white HP models only in Italy Keyboard for use with white HP models only in Spain Keyboard for use with white HP models only in French Canada Keyboard for use with white HP models only in Portugal Keyboard for use with white HP models only in Turkey Keyboard for use with white HP models only in Latin America Keyboard for use with white HP models only in Saudi Arabia Keyboard for use with white HP models only in Brazil Keyboard for use with white HP models only in Hungary Keyboard for use with white HP models only in the Czech Republic Keyboard for use with white HP models only in Russia Keyboard for use with white HP models only in Thailand Keyboard for use with white HP models only in Japan Keyboard for use with white HP models only in Europe Keyboard for use with white HP models only in Taiwan Keyboard for use with white HP models only in South Korea Keyboard for use with white HP models with international models Keyboard for use with white HP models only in Bosnia, Croatia, Montenegro, Serbia, and Slovenia Keyboard for use with white HP models only in Israel Keyboard for use with white HP models only in Switzerland Keyboard for use with white HP models only in Finland, Norway, and Sweden Keyboard for use with white HP models only in Greece Keyboard for use with pink HP models only in the United States Keyboard for use with pink HP models only in the United Kingdom Keyboard for use with pink HP models only in Germany Keyboard for use with pink HP models only in France Keyboard for use with pink HP models only in Italy Keyboard for use with pink HP models only in Spain Keyboard for use with pink HP models only in French Canada Keyboard for use with pink HP models only in Portugal Keyboard for use with pink HP models only in Turkey Keyboard for use with pink HP models only in Latin America Keyboard for use with pink HP models only in Saudi Arabia Sequential part number listing 33 Spare part number 537954-201 537954-211 537954-221 537954-251 537954-281 537954-291 537954-A41 537954-AB1 537954-AD1 537954-B31 537954-BA1 537954-BB1 537954-BG1 537954-DH1 537954-DJ1 538510-001 571370-001 Description Keyboard for use with pink HP models only in Brazil Keyboard for use with pink HP models only in Hungary Keyboard for use with pink HP models only in the Czech Republic Keyboard for use with pink HP models only in Russia Keyboard for use with pink HP models only in Thailand Keyboard for use with pink HP models only in Japan Keyboard for use with pink HP models only in Europe Keyboard for use with pink HP models only in Taiwan Keyboard for use with pink HP models only in South Korea Keyboard for use with pink HP models with international models Keyboard for use with pink HP models only in Bosnia, Croatia, Montenegro, Serbia, and Slovenia Keyboard for use with pink HP models only in Israel Keyboard for use with pink HP models only in Switzerland Keyboard for use with pink HP models only in Finland, Norway, and Sweden Keyboard for use with pink HP models only in Greece Display Screw Kit System board (includes Intel Atom N280 1.66-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB), and replacement thermal material) for use on the following model numbers only: HP: 110-1000 -- 110-1099 and Compaq: 110c-1000 -- 110-1099 10.1-inch, standard-definition, AntiGlare display assembly (includes WWAN) for use with black HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, standard-definition, AntiGlare display assembly (includes WWAN) for use with white HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, standard-definition, AntiGlare display assembly (includes WWAN) for use with pink HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, standard-definition, AntiGlare display assembly (includes WWAN) for use with Compaq models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) WWAN module for use only in the People's Republic of China 10.



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1-inch high-definition AntiGlare display panel 10.1-inch, high-definition, AntiGlare display assembly for use with black HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, high-definition, AntiGlare display assembly (includes WWAN) for use with black HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, high-definition, AntiGlare display assembly (includes WWAN) for use with white HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.

1-inch, high-definition, AntiGlare display assembly (includes WWAN) for use with pink HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, high-definition, AntiGlare display assembly for use with Compaq models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 571414-001 571415-001 571416-001 571417-001 571888-001 572405-001 572406-001 572407-001 572411-001 572413-001 572414-001 34 Chapter 3 Illustrated parts catalog Spare part number 574246-001 574670-001 575920-001 578237-001 579568-001 Description HP un2400 Mobile Broadband Module for use only in the People's Republic of China Bluetooth adapter WLAN/Bluetooth combination module High-definition video decoder System board (includes Intel Atom N270 1.6-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB), and thermal replacement material) for use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199 System board (includes Intel Atom N280 1.66-GHz processor, 512-KB Level 2 cache, 533-MHz front-side bus (FSB), and replacement thermal material) for use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199 10.1-inch WSVGA AntiGlare display panel Display Cable Kit for use with WSVGA panels only (includes display panel/webcam cable and WLAN antennas) Display enclosure (includes logo) for use with HP Mini 110 by Studio Tord Boontje models only 10.

1-inch, WSVGA, AntiGlare display assembly (includes WWAN) for use with black HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, WSVGA, AntiGlare display assembly (includes WWAN) for use with white HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, WSVGA, AntiGlare display assembly (includes WWAN) for use with pink HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, standard-definition, AntiGlare display assembly (includes WWAN) for use with HP Mini 110 by Studio Tord Boontje models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, high-definition, AntiGlare display assembly (includes WWAN) for use with HP Mini 110 by Studio Tord Boontje models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.

1-inch, WSVGA, AntiGlare display assembly (includes WWAN) for use with HP Mini 110 by Studio Tord Boontje models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) Top cover for use with HP Mini 110 by Studio Tord Boontje models only (includes TouchPad) 10.1-inch, WSVGA, AntiGlare display assembly (includes WWAN) for use with Compaq models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) Microphone assembly Display bezel for use with HP Mini 110 by Studio Tord Boontje models only USB/audio board (includes cable) for use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199 Power/battery pass-through board for use on the following model numbers only: HP: 110-1100 -- 110-1199 and Compaq: 110c-1100 -- 110-1199 160-GB, hard drive, 7200-RPM 320-GB hard drive, 5400-RPM WWAN module for use only with AT&T 579569-001 579570-001 579571-001 579576-001 579604-001 579606-001 579608-001 579610-001 579612-001 579614-001 579615-001 579626-001 581323-001 581324-001 581325-001 581326-001 590669-001 591398-001 591612-001 Sequential part number listing 35 Spare part number 591647-001 591648-001 591649-001 591650-001 592624-161 592625-161 Description

10.1-inch, high-definition, AntiGlare display assembly (includes WWAN) for use with blue HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) 10.1-inch, WSVGA, AntiGlare display assembly (includes WWAN) for use with blue HP models only (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables) Display enclosure (includes logo) for use with blue HP models only Base enclosure for use on pink, white, and HP Mini 110 by Studio Tord Boontje models only (includes 4 rubber feet) WWAN module for use only with Am Movil

WWAN module for use only with Telefonica 36 Chapter 3 Illustrated parts catalog 4 Removal and replacement procedures Preliminary replacement requirements Tools required You will need the following tools to complete the removal and replacement procedures: Flat-bladed screwdriver Magnetic screwdriver Phillips P0 and P1 screwdrivers Service considerations The following sections include some of the considerations that you must keep in mind during disassembly and assembly procedures. NOTE: As you remove each subassembly from the device, place the subassembly (and all accompanying screws) away from the work area to prevent damage. Plastic parts CAUTION: Using excessive force during disassembly and reassembly can damage plastic parts. Use care when handling the plastic parts. Apply pressure only at the points designated in the maintenance instructions. Cables and connectors CAUTION: When servicing the device, be sure that cables are placed in their proper locations during the reassembly process. Improper cable placement can damage the device.

Cables must be handled with extreme care to avoid damage. Apply only the tension required to unseat or seat the cables during removal and insertion. Handle cables by the connector whenever possible. In all cases, avoid bending, twisting, or tearing cables. Be sure that cables are routed in such a way that they cannot be caught or snagged by parts being removed or replaced. Handle flex cables with extreme care; these cables tear easily. Preliminary replacement requirements 37 Drive handling CAUTION: Drives are fragile components that must be handled with care. To prevent damage to the device, damage to a drive, or loss of information, observe these precautions: Before removing or inserting a hard drive, shut down the device. @@Before handling a drive, be sure that you are discharged of static electricity. While handling a drive, avoid touching the connector.

Handle drives on surfaces covered with at least one inch of shock-proof foam.



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Avoid dropping drives from any height onto any surface. After removing a hard drive, an optical drive, or a diskette drive, place it in a static-proof bag. Avoid exposing a hard drive to products that have magnetic fields, such as monitors or speakers. Avoid exposing a drive to temperature extremes or liquids.

If a drive must be mailed, place the drive in a bubble pack mailer or other suitable form of protective packaging and label the package "FRAGILE." 38 Chapter 4 Removal and replacement procedures Grounding guidelines Electrostatic discharge damage Electronic components are sensitive to electrostatic discharge (ESD). Circuitry design and structure determine the degree of sensitivity. Networks built into many integrated circuits provide some protection, but in many cases, ESD contains enough power to alter device parameters or melt silicon junctions. A discharge of static electricity from a finger or other conductor can destroy static-sensitive devices or microcircuitry.

Even if the spark is neither felt nor heard, damage may have occurred. An electronic device exposed to ESD may not be affected at all and can work perfectly throughout a normal cycle. Or the device may function normally for a while, then degrade in the internal layers, reducing its life expectancy. CAUTION: To prevent damage to the device when you are removing or installing internal components, observe these precautions: Keep components in their electrostatic-safe containers until you are ready to install them. Use nonmagnetic tools. Before touching an electronic component, discharge static electricity by using the guidelines described in this section. Avoid touching pins, leads, and circuitry. Handle electronic components as little as possible. If you remove a component, place it in an electrostatic-safe container. The following table shows how humidity affects the electrostatic voltage levels generated by different activities.

CAUTION: A product can be degraded by as little as 700 V. Typical electrostatic voltage levels Relative humidity Event Walking across carpet Walking across vinyl floor Motions of bench worker Removing DIPS from plastic tube Removing DIPS from vinyl tray Removing DIPS from Styrofoam Removing bubble pack from PCB Packing PCBs in foam-lined box 10% 35,000 V 12,000 V 6,000 V 2,000 V 11,500 V 14,500 V 26,500 V 21,000 V 40% 15,000 V 5,000 V 800 V 700 V 4,000 V 5,000 V 20,000 V 11,000 V 55% 7,500 V 3,000 V 400 V 400 V 2,000 V 3,500 V 7,000 V 5,000 V Preliminary replacement requirements 39 Packaging and transporting guidelines Follow these grounding guidelines when packaging and transporting equipment: To avoid hand contact, transport products in static-safe tubes, bags, or boxes. Protect ESD-sensitive parts and assemblies with conductive or approved containers or packaging. Keep ESD-sensitive parts in their containers until the parts arrive at static-free workstations. Place items on a grounded surface before removing items from their containers. Always be properly grounded when touching a component or assembly. Store reusable ESD-sensitive parts from assemblies in protective packaging or nonconductive foam. Use transporters and conveyors made of antistatic belts and roller bushings. Be sure that mechanized equipment used for moving materials is wired to ground and that proper materials are selected to avoid static charging. When grounding is not possible, use an ionizer to dissipate electric charges.

Workstation guidelines Follow these grounding workstation guidelines: Cover the workstation with approved static-shielding material. Use a wrist strap connected to a properly grounded work surface and use properly grounded tools and equipment. Use conductive field service tools, such as cutters, screwdrivers, and vacuums. When fixtures must directly contact dissipative surfaces, use fixtures made only of static-safe materials. Keep the work area free of nonconductive materials, such as ordinary plastic assembly aids and Styrofoam.

Handle ESD-sensitive components, parts, and assemblies by the case or PCM laminate. Handle these items only at static-free workstations. Avoid contact with pins, leads, or circuitry. Turn off power and input signals before inserting or removing connectors or test equipment. 40 Chapter 4 Removal and replacement procedures Equipment guidelines Grounding equipment must include either a wrist strap or a foot strap at a grounded workstation.

When seated, wear a wrist strap connected to a grounded system. Wrist straps are flexible straps with a minimum of one megohm $\pm 10\%$ resistance in the ground cords. To provide proper ground, wear a strap snugly against the skin at all times. On grounded mats with banana-plug connectors, use alligator clips to connect a wrist strap. When standing, use foot straps and a grounded floor mat. Foot straps (heel, toe, or boot straps) can be used at standing workstations and are compatible with most types of shoes or boots. On conductive floors or dissipative floor mats, use foot straps on both feet with a minimum of one megohm resistance between the operator and ground. To be effective, the conductive strips must be worn in contact with the skin. The following grounding equipment is recommended to prevent electrostatic damage: Antistatic tape Antistatic smocks, aprons, and sleeve protectors Conductive bins and other assembly or soldering aids Nonconductive foam Conductive tabletop workstations with ground cords of one megohm resistance Static-dissipative tables or floor mats with hard ties to the ground Field service kits Static awareness labels Material-handling packages Nonconductive plastic bags, tubes, or boxes Metal tote boxes Electrostatic voltage levels and protective materials The following table lists the shielding protection provided by antistatic bags and floor mats. Material Antistatic plastic Carbon-loaded plastic Metallized laminate Use Bags Floor mats Floor mats Voltage protection level 1,500 V 7,500 V 5,000 V Preliminary replacement requirements 41 Component replacement procedures This chapter provides removal and replacement procedures.

There are as many as 65 screws, in 9 different sizes, that must be removed, replaced, or loosened when servicing the device. Make special note of each screw size and location during removal and replacement. Service tag When ordering parts or requesting information, provide the computer serial number and model description provided on the service tag: (1) Product name: This is the product name affixed to the front of the device. (2) Serial number (s/n): This is an alphanumeric identifier that is unique to each product. (3) Part number/Product number (p/n): This number provides specific information about the product's hardware components. The part number helps a service technician to determine what components and parts are needed. (4) Model description: This is the alphanumeric identifier used to locate documents, drivers, and support for the device.



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