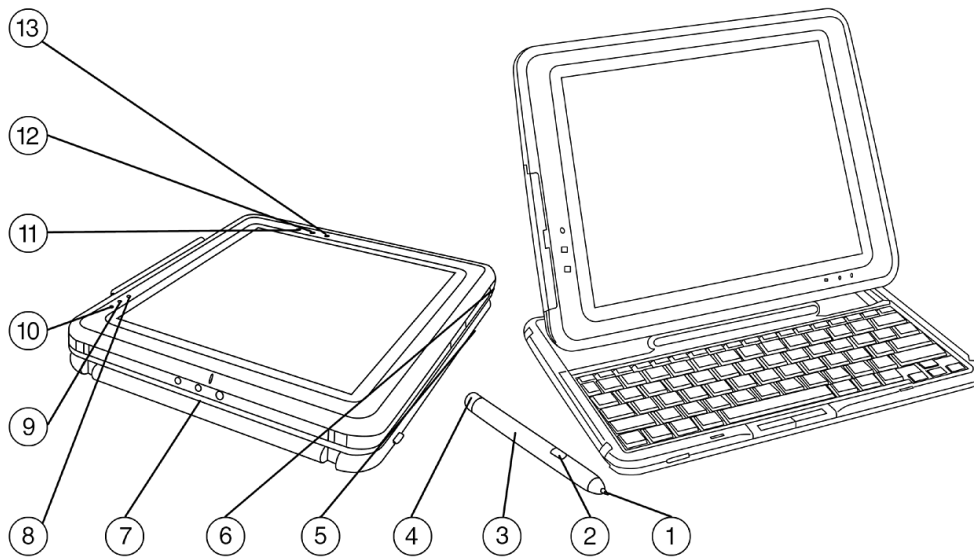
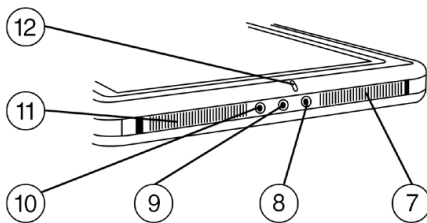


### Overview

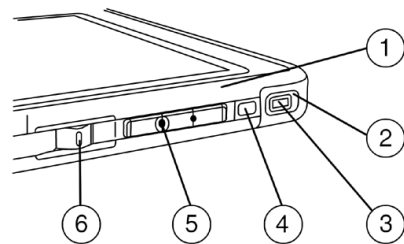


- |                               |  |
|-------------------------------|--|
| 1. Pen Tip                    | 8. AC Adapter Light                        |
| 2. Pen Button                 | 9. Battery Light                           |
| 3. Pen Barrel                 | 10. Wireless LAN/Bluetooth™ Activity Light |
| 4. Pen Tether Eyelet          | 11. Tablet PC Input Panel Launch           |
| 5. Battery Bay                | 12. Journal Launch Button                  |
| 6. Power Switch               | 13. Rotate Button                          |
| 7. Mobile Keyboard (attached) |  |

### Front View

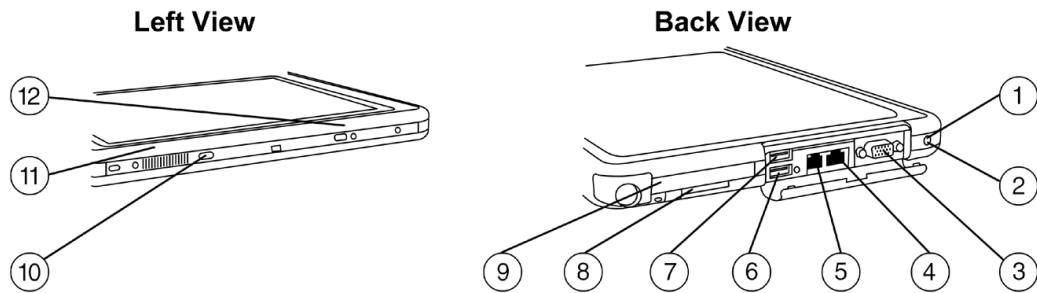


### Right View



- |   |                      |
|---|----------------------|
| 1. Integrated Antenna                     | 7. Speaker (1 of 2)  |
| 2. Power Switch                           | 8. Microphone Jack   |
| 3. Power/Standby Light                    | 9. Headset Jack      |
| 4. Display Toggle (F4) Button             | 10. Audio-out Jack   |
| 5. Windows Security Button (CTRL+ALT+DEL) | 11. Speaker (1 of 2) |
| 6. Jog Dial                               | 12. Microphone       |

### Overview



- |  |   |
|--|---|
| 1. AC Power Connector                    | 7. USB 2.0 Connector                                |
| 2. Integrated IR                         | 8. Secure Digital (SD) Slot                         |
| 3. External Monitor Connector            | 9. PC Card Slot                                     |
| 4. RJ-45 Network Jack                    | 10. Keyboard Connector                              |
| 5. RJ-11 Telephone Jack                  | 11. Antenna (not visible from outside of tablet PC) |
| 6. External Multibay Connector (USB 2.0) | 12. Integrated Bluetooth                            |

### At A Glance

- Award-winning design
- Microsoft® Windows® XP Tablet PC Edition
- Intel® Pentium® M and Celeron® M Ultra Low Voltage processors
- Intel 855PM Chipset with rich graphics from NVIDIA – GeForce 4 Go 420 32MB (4X AGP)
- Durable magnesium casing
- Weighs 3.1 lb(1.4 kg) – with keyboard 4.0 lb(1.8 kg)
- Approximately 0.8 in(2.0 cm) thin
- 10.4-inch XGA TFT display with sparkle-free glass
- Starting with 256 MB or 512 MB of SDRAM upgradeable to 2 GB
- Storage available ranging from 30 GB to 80 GB
- Integrated mini PCI 56K modem plus 10/100 NIC
- Type III Mini PCI integrated WLAN – 802.11b WLAN and 802.11a/b/g WLAN options
- Integrated Bluetooth™ on select models
- Dedicated Secure Digital (SD) slot for removable media
- Integrated IR
- Battery-free, pressure sensitive pen for the ultimate writing experience (application must support pressure sensitivity)
- Additional HP Security Lock Slot

### What's Special

- Flexible design with great performance!
- Ultra-light weight and portable
- Warm swap battery support
- Innovative keyboard attachment
- Docking with or without keyboard
- Easy transitions with multi-monitor docking profiles
- Magnesium alloy case and high quality digital pen with tether

### Standard Features

<b>Processor and Chipset</b>	Intel Pentium M 733* (Ultra Low Voltage 1.1-GHz processor, 2-MB cache and 400-MHz Front Side Bus) Intel Pentium M 713* (Ultra Low Voltage 1.1-GHz processor, 1-MB cache, 400-MHz Front Side Bus) Intel Pentium M Ultra Low Voltage 1.0-GHz processor with 1-MB cache and 400-MHz Front Side Bus Intel Celeron M 353* (Ultra Low Voltage 900-MHz speed, 512-KB cache, 400-MHz front side bus) Intel 855PM chipset <b>NOTE:</b> Not available in all regions. <b>*NOTE:</b> Intel's numbering is not a measurement of higher performance.
<b>Operating System</b>	Pre-installed Microsoft Windows XP Tablet PC Edition
<b>Display</b>	Internal 10.4-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal) <b>NOTE:</b> All products have at least 100 degree wide viewing angle. Pentium M SKU DQ871A#ABA available with 160 degree viewing angle. External Up to 32-bit per pixel color depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, or 1600 x 1200 resolutions up to 100-Hz refresh rate, dependent upon monitor capability, and resolution and color depth settings
<b>Memory</b>	Standard 256- or 512-MB (333-MHz) SDRAM on select models Maximum 2-GB (333-MHz) SDRAM <b>NOTE:</b> Memory is upgradeable to 2 GB with 1 GB (333-MHz) DRAM in each memory slot. One memory slot is available for user configuration. The other slot is factory configured or can be upgraded through an HP authorized service provider. <b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only HP branded memory modules to ensure compatibility.
<b>Graphics</b>	NVIDIA GeForce 4 Go 420 with 32MB (4X APG)
<b>Audio</b>	16-bit stereo sound 2 stereo speakers Headphone out, microphone jack, and headset jack
<b>Communications</b>	Type III Mini PCI integrated WLAN – 802.11b WLAN and 802.11a/b/g WLAN options Internal MDC 56K high speed modem Internal 10/100 NIC Integrated Bluetooth (on select models) <b>NOTE:</b> Designed only to allow faster downloads from high speed compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. <b>NOTE:</b> Communication availability is subject to country regulatory approval.
<b>Command Controls Buttons</b>	The tablet PC comes with Command Control Buttons designed to increase customer productivity by providing one-touch access to rotate screen, favorite Internet destinations, files, or applications. <ul style="list-style-type: none"><li>● 3 programmable pen activated buttons (on top front panel)</li><li>● 3 programmable side buttons (Qmenu, Esc, and Tab commands)</li><li>● 2 additional specific function buttons (Windows security (Ctrl+Alt+Del) and Display toggle)</li></ul>

### Standard Features

**Keyboard** 95% of full-sized 101-key compatible keyboard with isolated, inverted-T cursor control keys, and right-control key  
**NOTE:** A USB Keyboard is required to unbundle software and edit BIOS settings and may be required to install software.

**Pointing Device** Battery-free digital pen with tether (one-year warranty)  
 Detachable keyboard with pointstick  
**NOTE:** Handwriting recognition software is available in Microsoft Windows XP Tablet PC Edition.

**PC Card Slots** One Type II PC Card Slot that supports both 32-bit CardBus and 16-bit PCMCIA Cards

**Removable Media** One Secured Digital (SD) slot

**Storage** Internal Hard Drive 30-GB, 40-GB (4200 rpm) or 40-GB, 60-GB, 80-GB (5400 rpm) SMART Hard Drives  
**NOTE:** External MultiBay or Tablet PC Docking Station required for MultiBay drives.

**Multimedia** Integrated 16-bit Sound Blaster Pro-compatible stereo audio  
 2 Integrated stereo speakers and microphone  
 Stereo Headphone-out  
 Mono Headphone-out/Microphone in  
 Software MPEG1 support  
 DVD movie playback software available with

- DVD-ROM Drive with DVD movie playback
- DVD/CD-RW Combo Drive
- DVD+RW Drive

**NOTE:** Voice recognition software available in Microsoft Windows XP Tablet PC Edition. An external boom microphone is recommended for voice recognition.

**Interfaces**

PC Card Slot	1, Type II
Secured Digital (SD) Slot	1 removable media (not SDIO)
External Monitor/Projector	1 Analog VGA
Stereo Headphone	1, 3.5 mm stereo headphone jack
Mono Headphone/ Microphone	1, 2.5 mm headset jack
Stereo Microphone in	1, 3.5 mm microphone jack
Modem	1 RJ-11
NIC	1 RJ-45
USB 2.0 Port	2, 1 with support for External MultiBay
LED Status Indicators	3 (Power connection, battery charge, and wireless active)
AC Power	1
Fast Infra-red (VFIR)	1

### Standard Features

<b>Security</b>	<p>Setup Password with pen support          Power-On Password with pen support          DriveLock – requires password to access hard drive          Enabled by PC Card options          BIOS WLAN lock – prevents the replacement with unauthorized WLAN cards          2 HP Security locks – physically secure unit while in tablet, docking, or notebook modes</p>
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<b>Software</b>	<p><b>Pre-installed Software</b></p> <p>HP Mobile Printing for Notebooks          HP Help and Support (XP Only)          Safety and Comfort Guide          Adobe Acrobat® Reader v. 5.1.0          Microsoft Reader v. 2.5          Zinio Reader v.1.4          Sun Java 1.4          Windows Media Player 9 for XP          HP Tablet PC Tour          *Intervideo WinDVD Playback Software v. 4* (Pre-loaded)</p> <p><b>Recommended software/services</b></p> <p>Availability of recommended software applications or services may vary by region and may require additional purchase and/or subscription          FranklinCovey TabletPlanner v. 2.0 (30 day trial period)          MindJet MindManager 2002 for Tablet PC (21 day trial period)          Corel Grafigo v. 1.0 (promotional free download)          Zinio (see Digital Magazine icon on Tablet PC desktop for more information)          ScanSoft OmniForm Filler 5.1 and Dragon Naturally Speaking Standard Edition 7.1 (available as a special configuration)</p> <p><b>Additional software available through the web</b></p> <p>HP Client Manager Software          HP ProtectTools Smart Card Security Manager          QuickLook for the HP Tablet PC TC1100 series</p> <p><b>*NOTE:</b> Software is loaded on the hard drive and must be installed by running the Software Setup utility.</p>
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<b>System Recovery</b>	<p>Each unit is shipped with a recovery CD kit containing Operating System Recovery and Driver/Application Recovery CDs. These CDs allow users to either recover or repair the tablet's operating system and select drivers without losing personal data. The Operating System CD also provides the option of reinstalling the operating system software provided with the tablet.</p>
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<b>Power Supply</b>	65W External AC Adapter
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<b>Battery</b>	<p>40W/Hr internal main rechargeable Lithium-Ion battery (one-year warranty)          Bridge battery – Allows user to swap main battery with the system in standby mode.</p> <p><b>Battery Re-Charge Time</b></p> <table> <tr> <td>System in OFF mode or Standby</td> <td>3 hours</td> </tr> <tr> <td>System ON (depending on system power consumption)</td> <td>3-5 hours</td> </tr> </table>	System in OFF mode or Standby	3 hours	System ON (depending on system power consumption)	3-5 hours
System in OFF mode or Standby	3 hours				
System ON (depending on system power consumption)	3-5 hours				

<b>Power Conservation</b>	<p>Instant-on via Standby          Hibernation          ACPI compliant</p>
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<b>MultiBay Devices</b>	<p>Under Microsoft Windows XP Tablet PC Edition, MultiBay devices may be hot swapped. Writeable drives should only be swapped with power off. The Common MultiBay devices are compatible across TC1000 and TC1100 tablets, and multiple or Docking Station)</p> <p>business notebook platforms enabling a lower total cost of ownership.</p>
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### Standard Features

#### Wireless Devices

The HP tablet TC1100 supports a range of secure, integrated wireless LAN options featuring support for the latest industry standards. Integrated Bluetooth is also an option and can be combined with any one of the supported wireless LAN options.

<b>All integrated wireless LAN options</b>	<ul style="list-style-type: none"> <li>Wi-Fi certified</li> <li>Cisco Compatible Extensions support</li> <li>Wired Equivalent Privacy (WEP) support up to 128bit keys</li> <li>Wi-Fi Protected Access (WPA) support</li> <li>802.1x standards support including EAP-TLS, Protected EAP (PEAP) and Cisco-EAP (LEAP)</li> <li>Dual antennas integrated in the display enclosure</li> </ul>
<b>HP W500 802.11a/b/g</b>	<ul style="list-style-type: none"> <li>Integrated support for 802.11a, b and g</li> <li>Up to 54mbps throughput performance</li> <li>Advanced Encryption Standard (AES) support</li> </ul>
<b>Intel PRO/Wireless 2100 802.11b wireless LAN</b>	<ul style="list-style-type: none"> <li>Intel® Centrino™ mobile technology</li> <li>Integrated support for 802.11b</li> <li>Up to 11mbps throughput performance</li> </ul>
<b>Integrated Bluetooth</b>	<ul style="list-style-type: none"> <li>Designed to the Bluetooth v1.1 specification</li> </ul>

#### Docking

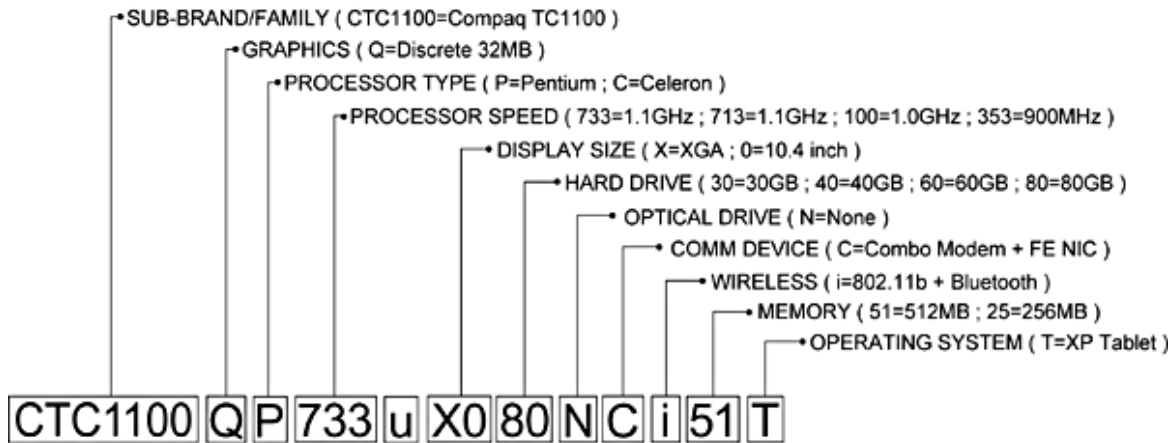
The HP Tablet PC Docking Station provides simple and convenient port management MultiBay drives. Features include NIC pass through, four USB 2.0 including 1 Powered External USB MultiBay connector, VGA, line in/line out, and MultiBay slot. The docking solutions are compatible across TC1000 and TC1100 tablets enabling a lower total cost of ownership.

#### Service and Support

HP Services includes a One-Year or Three-year, Worldwide Limited Warranty, pick-up or carry-in (in select countries) and toll-free 7 x 24 hardware technical phone support.

**NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

#### The Etymology of a Model name:



### Standard Features

#### Model

CTC1100QP100X040NCi51T  
DQ871A#ABA  
(Intel® Centrino™ Mobile Technology)

<b>CPU</b>	Ultra-Low Voltage Intel Pentium M 1.0GHz with 400MHz Front Side Bus and 1MB cache
<b>Operating System</b>	Microsoft Windows XP Tablet PC Edition
<b>Display</b>	10.4-inch color TFT XGA with 1024 x 768 resolution (160 degree viewing angle)
<b>Memory</b>	Standard        512MB 333-MHz DDR SDRAM with one open slot Maximum        2GB, 1GB 333MHz DDR SDRAM in each slot
<b>Hard Drive</b>	40GB
<b>Discrete Video</b>	NVIDIA - GeForce 4 Go 420 32MB (4X AGP)
<b>Communications</b>	Internal MDC 56K (V.90/high speed) modem, NIC 10/100, Intel Pro/Wireless WLAN 802.11b, Bluetooth
<b>Input Device</b>	Tablet PC Pen with tether, HP Tablet PC Keyboard with Pointstick
<b>Battery</b>	6-cell Lithium-Ion

### Options

<b>Memory</b>	256-MB 333-MHz RAM Memory Upgrade	DC389B
	512-MB 333-MHz RAM Memory Upgrade	DC390B
	1-GB 333-MHz RAM Memory Upgrade	DC890B
<p><b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only HP branded memory modules to ensure compatibility.</p>		
<b>MultiBay Devices</b>	16X DVD+RW/CD-RW Drive	DG189A
	24X Combo DVD/CD-RW Drive	DC364A
	8X DVD Drive	DC352A
	24X Max CD-ROM Drive	DC351A
	MultiBay Diskette Drive	DC362A
<p><b>NOTE:</b> MultiBay devices may only be used in External MultiBay or Docking Station MultiBay.</p>		
<b>MultiBay Storage</b>	USB MultiBay Diskette Drive	DC361A
	40-GB MultiBay Hard Drive (4200 rpm)	DC365A
	60-GB MultiBay Hard Drive (5400 rpm)	DC894A
	80-GB MultiBay Hard Drive (5400 rpm)	DC920A
<p><b>NOTE:</b> MultiBay hard drive options may only be used in External MultiBay or Docking Station MultiBay.</p>		
<b>Expansion Bases</b>	Tablet PC Docking Station	DC911A#ABA
	External MultiBay	DC373A#ABA
<b>Power</b>	Tablet PC Lithium-Ion battery pack (internal)	DC907A
<b>Common Power Solutions</b>	Battery Charger (single)	DF933A#ABA
	Battery Charger (multiple)	DF932A#ABA
	65W AC Adapter	DC359A#ABA
	90W Auto Adapter	DC303B
	90W Aircraft Cables	DC899A
<b>Input Devices</b>	Tablet PC Mobile Keyboard	DC875A#ABA
	Tablet PC Pen with tether	DG937A
	Tablet PC Pen with eraser	DM685A
	Wireless Keyboard & Mouse	DL989A#ABA
	USB/PS2 Keyboard & Mouse	DM687A#ABA
	External Enhanced III Keyboard (carbon)	DC852A#XXX
	USB Travel Optical Mouse	F2100A
	USB/PS2 Optical Mouse	DC369A
<b>Security</b>	Security Cable Lock	DC368A
<b>Communications</b>	W500 WLAN 802.11a/b/g miniPCI Upgrade	DR469A#ABA

### Options

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<b>Removable Storage</b>	5GB PCMCIA Hard Drive	DF928A
	USB Digital Drive with 128MB	DL702A
	SD Card Memory (128MB)	FA135A#AC3
	SD Card Memory (256MB)	FA136A#AC3
	SD Card Memory (512MB)	FA184A#AC3

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<b>Useful Accessories</b>	Tablet PC Executive Slim-line Portfolio	DC912A
	Tablet PC Executive Workstation Portfolio	DC909A

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<b>Cases</b>	HP Entry Value	DL617A
	Top Load Nylon	DC915A
	Sport Backpack	DG102A
	Executive Nylon	DC916A
	Executive Leather	DC917A
	Portable Grip	DK504A
	Rugged Case	DK503A

### Memory

#### HP Compaq Tablet PC TC1100

Standard memory plus optional memory for the Celeron model. Not all configurations shown.

Memory		Factory or HP authorized service provider configured	User configurable
Standard	256 MB	256 MB (266 MHz)	Empty
Optional	512 MB	256 MB (266 MHz)	256 MB (333 MHz) <sup>1</sup>
Optional	768 MB	256 MB (266 MHz)	512 MB (333 MHz) <sup>2</sup>
Optional	1024 MB	512 MB (333 MHz)	512 MB (333 MHz)
Optional	1536 MB	512 MB (333 MHz)	1 GB (333 MHz)
Optional maximum	2 GB	1 GB (333 MHz)	1 GB (333 MHz)

Standard memory plus optional memory for the Pentium-M model. Not all configurations shown.

Memory		Factory or HP authorized service provider configured	User configurable
Standard	512 MB	512MB (333MHz)	Empty
Optional	768 MB	512MB (333MHz)	256MB (333MHz)
Optional	1024 MB	512MB (333MHz)	512MB (333MHz)
Optional	1536 MB	512MB (333MHz)	1GB (333MHz)
Optional maximum	2 GB	1GB (333MHz)	1GB (333MHz)

<sup>1</sup> Memory will run at 266 MHz.

<sup>2</sup> Memory will run at 266 MHz.

### Technical Specifications

<b>System Unit</b>	<b>Dimensions (H x W x D)</b>	10.4-inch TFT panel display	10.8 x 8.5 x 0.8 in (27.4 x 21.6 x 2.0 cm)
	<b>Weight</b>	Approximate	3.1 lb (1.4 kg) Tablet PC only 4 lb (1.8 kg) Tablet PC with keyboard
	<b>Stand-Alone Power Requirements</b>	Nominal Operating Voltage	14.8 VDC
		Peak Operating Power	40 W
	<b>Temperature</b>	Operating	50° to 95° F (10° to 35° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	<b>Relative Humidity</b>	Operating	10% to 90% relative humidity, non-condensing
		Non-operating	5% to 90% relative humidity, 101.6° F (38.7° C) maximum wet bulb temperature
	<b>Shock</b>	Operating	10 G, 11 ms, half-sine
		Non-operating	60 G, 11 ms, half-sine
<b>Vibration</b>	Operating	0.5 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate	
	Non-operating	1.0 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate	
<b>Maximum Altitude (unpressurized)</b>	Operating	0 to 10,000 ft (3,048 m), (14.7 to 10.1 psia)	
	Non-operating	0 to 30,000 ft (9,144 m), (14.7 to 4.4 psia)	

<b>10.4-Inch Color TFT XGA Display</b>	<b>Dimensions (H x W)</b>	9.29 x 6.82 in (23.6 x 17.3 cm)		
	<b>Diagonal Size</b>	10.4 in (26.41 cm)		
	<b>Mounting</b>	Internal Panel Supports, Flange Mounted		
	<b>Number of Colors</b>	Up to 16.8M		
	<b>Contrast Ratio</b>	150:1		
	<b>Brightness</b>	140 nits typical		
	<b>Pixel Resolution</b>	Pitch	0.264 x 0.264 mm	
		Format	1024 x 768	
		Configuration	RGB stripe	
	<b>Backlight</b>	Edge Lit		
<b>Character Display</b>	80 x 25			
<b>Wide Viewing Angle</b>	100 degrees with Celeron SKUs			
	160 degrees with Pentium M SKU DQ871A#ABA			

<b>Memory (optional)</b>	<b>Slot 1</b> (Factory and HP authorized service provider configurable only)	256-MB 266-MHz DDR	Standard with Celeron SKUs (may also use 333 MHz)
		256-MB 333-MHz DDR	
		512-MB 333-MHz DDR	Standard with Pentium SKUs
	<b>Slot 2 (available)</b>	1-GB 333-MHz DDR	
		256-MB 333-MHz DDR	
		512-MB 333-MHz DDR	
		1-GB 333-MHz DDR	

<b>External AC Adapter</b>	<b>Weight</b>	0.62 lb (0.28 kg)	
	<b>Power Supply (Input)</b>	Operating Voltage	90 to 260 VAC RMS
		Operating Current	1.7 A RMS
		Operating Frequency Range	47 to 63 Hz AC

### Technical Specifications

<b>Internal Lithium-Ion Battery Pack</b>	<b>Weight</b>	0.65 lb (0.30 kg)		
	<b>Cells</b>	6-cell Lithium-Ion		
	<b>Energy</b>	Voltage	11.1 V	
		Amp-hour capacity	3.6 Ah	
		Watt-hour capacity	40 Wh	
	<b>Temperature</b>	Operating (Charging)	32° to 104° F (0° to 40° C)	
		Operating (Discharging)	14° to 122° F (-10° to 50° C)	
		Non-operating	-4° to 140° F (-20° to 60° C)	
	<b>Battery Re-Charge Time</b>	System in OFF mode or Standby	3 hours	
		System ON (depending of system power consumption)	3 to 5 hours	
<b>Tablet PC Pen(s)</b>	<b>Pen with tether (standard)</b>	Dimensions (Length)	5.1 in (130.1 mm)	
		Weight	0.66 oz (18.7 g)	
	<b>Pen with eraser (optional)</b>	Dimensions (Length)	5.1 in (130.1 mm)	
		Weight	0.66 oz (18.7 g)	
<b>MultiBay DVD+RW/CD-RW Drive (optional)</b>	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)	
		Weight	0.55 lb (0.25 kg)	
	<b>Center Hole Diameter</b>	15 mm		
	<b>Disk Diameter</b>	12 cm/8 cm		
	<b>Disk Thickness</b>	1.2 mm		
	<b>Track Pitch</b>	0.74 μm		
	<b>Access Times</b> (typical reads, including settling)	Random CD	< 175 ms	
		Full-Stroke CD	< 285 ms	
	<b>Audio Output Level</b>	Line-out	0.7 Vrms	
	<b>Cache Buffer</b>	128 KB/s (minimum)		
	<b>Data Transfer Rate</b> (typical, including settling)	DVD+R (2X max write)	2700 KB/s	
		DVD+RW (2X max write)	2700 KB/s	
		CD-R (16X max write)	2400 KB/s (150 KB/s at 1X CD rate)	
		CD-RW (8X max write)	1200 KB/s (150 KB/s at 1X CD rate)	
		CD-ROM (24X max read)	3600 KB/s (150 KB/s at 1X CD rate)	
DVD (8X max read)		10,800 KB/s (1352 KB/s at 1X DVD rate)		
Normal PIO Mode 4 (single burst)		16.6 MB/s		
<b>Start-up Time</b>	< 15 seconds			
<b>Stop Time</b>	< 6 seconds			

### Technical Specifications

<b>MultiBay CD-RW Drive</b> (optional)	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.74 lb (0.34 kg)
	<b>Center Hole Diameter</b>	0.59 in (1.5 cm)	
	<b>Disk Diameter</b>	12 cm/8 cm	
	<b>Disk Thickness</b>	0.047 in (1.2 mm)	
	<b>Track Pitch</b>	0.74 $\mu$ m	
	<b>Access Times</b> (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	<b>Audio Output Level</b>	Line-out	0.7 Vrms
	<b>Cache Buffer</b>	128 KB/s (minimum)	
	<b>Data Transfer Rate</b> (typical, including settling)	Sustained (16X)	150 KB/s
		Sustained 4X CD-RW	5,520 KB/s
		Normal PIO Mode 4 (single burst)	16.6 MB/s
<b>Start-up Time</b>	< 15 seconds		
<b>Stop Time</b>	< 6 seconds		

<b>MultiBay DVD-ROM Drive</b> (optional)	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.66 lb (0.3 kg)
	<b>Center Hole Diameter</b>	0.59 in (1.5 cm)	
	<b>Disk Diameter</b>	12 cm/8 cm	
	<b>Disk Thickness</b>	0.43 in (1.09 cm)	
	<b>Track Pitch</b>	0.74 $\mu$ m	
	<b>Access Times</b> (typical reads, including settling)	Random (typical)	< 180 ms DVD Media
		Full-Stroke (typical)	< 300 ms DVD Media
		Random (typical)	< 120 ms CD Media
		Full-Stroke (typical)	< 200 ms CD Media
	<b>Cache Buffer</b>	512 KB/s (minimum)	
	<b>Data Transfer Rate</b> (typical, including settling)	Max 24X CD	3600 KB/s (150 KB/s at 1X CD rate)
		Max 8X DVD	10,800 KB/s (1352 KB/s at 1X DVD rate)
Normal PIO Mode 4 (single burst)		16.6 MB/s	
<b>Start-up Time</b>	< 12 seconds		
<b>Stop Time</b>	< 3 seconds		

### Technical Specifications

<b>MultiBay 24X CD-ROM Drive</b> (optional)	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.50 lb (0.23 kg)
	<b>Applicable Disk</b>	CD-ROM (Mode 1, 2 and 3), CD-XA ready (Mode 2, Form 1 and 2), CD-I ready (Mode 2, Form 1 and 2), CD-R (read only), CD Plus, Photo CD (Single and Multi-session), CD-Extra, Video CD, CD-WO (fixed packets only), CD-Bridge	
	<b>Center Hole Diameter</b>	0.59 in (15 mm)	
	<b>Disk Diameter</b>	12 cm, 8 cm	
	<b>Disk Thickness</b>	0.047 in (0.12 cm)	
	<b>Track Pitch</b>	1.6 $\mu$ m	
	<b>Access Times</b> (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 300 ms
	<b>Audio Output Level</b>	Line-out	0.7 Vrms
	<b>Cache Buffer</b>	128 KB	
	<b>Data Transfer Rate</b> (typical, including settling)	Sustained (16X)	150 KB/s (sustained 1X)
		Variable	1500 to 3600 KB/s (10X to 24X)
		Normal PIO Mode 4 (single burst)	16.66 MB/s
	<b>Start-up Time</b>	< 8 seconds	
	<b>Stop Time</b>	< 4 seconds	

### Technical Specifications

**Internal MDC 56K high speed Modem**  
(Modem Specifications)

**Modem Device Driver Name**

**Data Mode Capabilities** High speed 56K modem (a-law, mu-law)  
V.8bis  
V.80  
V.44, V42.bis, MNP5 (Compression)  
V.42 (LAPM, MNP2-4) (Error Correction)  
V.34 (file date: 10/96)

**Optional symbol rates:**

2800, 3429  
Asymmetric Symbol rates

**Synchronous primary channel data signaling rates:**

33600, 31200  
Automatic rate re-negotiation  
V.32bis  
V.32  
V.23  
V.22bis  
V.22  
V.21  
Bell 212A  
Bell 103J

**Fax Mode Capabilities** TIA-578-S (Class 1)

T.30, T.4 (Group 3)  
V.17  
V.29  
V.27ter  
V.21 Channel 2

**Command Set**

V.250 (Partial)  
TIA-602  
Identification: GMI, GMM, GMR  
Port control: IPR, ICF, IFC, IIRR  
Modulation: MS, MR, MA  
Error control: ES, ER, EB, ESR, ETBM  
Data compression: DS, DR  
V.251

**Power Consumption**

Transfer mode: < 200 mA, maximum  
Standby mode: 5 mA, nominal

**Integrated 10/100 NIC**

**Ethernet Features**

10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)  
100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)  
Auto-Negotiation (Automatic Speed and Duplex Selection)  
HP Auto-MDIX  
Full Duplex and Half Duplex operation at 10 and 100 Mbit/s  
IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

**Power Management**

ACPI 1.1 compliant -- multiple power modes  
Situation-sensitive features reduce power consumption

**Manageability**

PXE 2.0 Remote Boot  
Statistics Gathering (RMON, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))  
Comprehensive diagnostic and configuration software suite

**NIC Device Driver Name**

Broadcom 440x 10/100 Integrated Controller

**Drivers Available**

Microsoft Windows XP, Windows 2000  
DOS NDIS2 and ODI

### Technical Specifications

<p><b>HP W500 802.11a/b/g WLAN</b> (available as a special configuration)</p>	<p><b>Wireless LAN Standards</b></p>	<p>IEEE 802 Part 11a (802.11a) IEEE 802. Part 11b (802.11b) IEEE 802. Part 11g (802.11g)</p>						
	<p><b>Interoperability</b></p>	<p>Wi-Fi certified</p>						
	<p><b>Frequency Band</b></p>	<p>2.4 and 5 GHz</p>						
	<p><b>Data Rates</b></p>	<p>802.11a; 6,9,12,18,24,36,48,54 Mbps 802.11b; 1,2,5.5,11 Mbps 802.11g; 6,9,12,18,24,36,48,54 Mbps</p>						
	<p><b>Modulation</b></p>	<p>Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM</p>						
	<p><b>Security</b></p>	<p>64 and 128 bit WEP encryption Support for WiFi Protected Access (WPA) including TKIP, MIC Hardware-accelerated support for the Advanced Encryption Standard (AES; 256-bit encryption) Support for 802.1x authentication types: EAP-TLS, LEAP (Cisco), PEAP (Microsoft implementation) Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program).</p>						
	<p><b>Sub-channels</b></p>	<p>Multinational support with frequency bands and channels compliant to local regulations.</p>						
	<p><b>Media Access Protocol</b></p>	<p>CSMA/CA (Collision Avoidance) with ACK</p>						
	<p><b>Network Architecture Models</b></p>	<p>Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)</p>						
	<p><b>Roaming</b></p>	<p>IEEE 802.11 compliant roaming between 802.11a and 802.11b/g access points</p>						
	<p><b>Output Power</b></p>	<p>802.11b: 17 dBm (typical) 802.11a/g: 15 dBm (typical)</p>						
	<p><b>Power Consumption</b></p>	<p>Transmit: 2.0 W (max) Receive: 1.5 W (max) Sleep mode: 20 mW (max)</p>						
	<p><b>Power Management</b></p>	<p>ACPI compliant power management 802.11 Compliant Power Saving Mode Power Saving Mode selectable through the configuration utility</p>						
	<p><b>Receiver Sensitivity*</b></p>	<p>54 Mbps: -70 dBm to 1 Mbps: -90 dbm</p>						
	<p><b>Antenna type</b></p>	<p>High efficiency dual band antenna with polarization diversity, mounted in the display enclosure</p>						
	<p><b>Range</b></p>	<table border="0"> <tr> <td style="vertical-align: top;">802.11a - Typical</td> <td style="vertical-align: top;">500 feet - Outdoors Open Area 150 feet - Indoor, Office-environment</td> </tr> <tr> <td style="vertical-align: top;">802.11 b - Typical</td> <td style="vertical-align: top;">1200 feet - Outdoor Open Area 300 feet - Indoor, Office environment</td> </tr> <tr> <td style="vertical-align: top;">802.11 g - Typical</td> <td style="vertical-align: top;">1000 feet - Outdoor Open Area 200 feet - Indoor, Office environment</td> </tr> </table>	802.11a - Typical	500 feet - Outdoors Open Area 150 feet - Indoor, Office-environment	802.11 b - Typical	1200 feet - Outdoor Open Area 300 feet - Indoor, Office environment	802.11 g - Typical	1000 feet - Outdoor Open Area 200 feet - Indoor, Office environment
802.11a - Typical	500 feet - Outdoors Open Area 150 feet - Indoor, Office-environment							
802.11 b - Typical	1200 feet - Outdoor Open Area 300 feet - Indoor, Office environment							
802.11 g - Typical	1000 feet - Outdoor Open Area 200 feet - Indoor, Office environment							
	<p><b>Form Factor</b></p>	<p>MiniPCI Type IIIA</p>						
	<p><b>Weight</b></p>	<p>0.036 lb (16.5 gm)</p>						
	<p><b>Dimensions</b></p>	<p>0.19 x 2.00 x 2.35 in (4.8 x 50.95 x 59.75 mm)</p>						
	<p><b>Operating Voltage</b></p>	<p>3.3v</p>						
	<p><b>Temperature</b></p>	<table border="0"> <tr> <td style="vertical-align: top;">Operating</td> <td style="vertical-align: top;">32° to 122° F (0° to 50° C)</td> </tr> <tr> <td style="vertical-align: top;">Non-operating</td> <td style="vertical-align: top;">-14° to 158° F (-10 to 70° C)</td> </tr> </table>	Operating	32° to 122° F (0° to 50° C)	Non-operating	-14° to 158° F (-10 to 70° C)		
Operating	32° to 122° F (0° to 50° C)							
Non-operating	-14° to 158° F (-10 to 70° C)							
	<p><b>Humidity</b></p>	<table border="0"> <tr> <td style="vertical-align: top;">Operating</td> <td style="vertical-align: top;">10 to 90%</td> </tr> <tr> <td style="vertical-align: top;">Non-operating</td> <td style="vertical-align: top;">5 to 95%</td> </tr> </table>	Operating	10 to 90%	Non-operating	5 to 95%		
Operating	10 to 90%							
Non-operating	5 to 95%							
	<p><b>Altitude</b></p>	<table border="0"> <tr> <td style="vertical-align: top;">Operating</td> <td style="vertical-align: top;">0 to 15,000 ft (4,572 m)</td> </tr> <tr> <td style="vertical-align: top;">Non-operating</td> <td style="vertical-align: top;">0 to 40,000 ft (12,192 m)</td> </tr> </table>	Operating	0 to 15,000 ft (4,572 m)	Non-operating	0 to 40,000 ft (12,192 m)		
Operating	0 to 15,000 ft (4,572 m)							
Non-operating	0 to 40,000 ft (12,192 m)							
	<p><b>Configuration Utility</b></p>	<p>Choice of Configuration Utility:</p> <ul style="list-style-type: none"> <li>● Atheros Client Utility (required for Cisco Compatible Extensions support)</li> <li>● Microsoft Windows XP Wireless Zero Configuration Utility</li> </ul>						

**NOTE:** may also be compatible with certain third party software supplicants

### Technical Specifications

**LED Activity** LED Off - WLAN and Bluetooth Radio OFF; Solid Green LED - WLAN or Bluetooth Radio ON  
(please refer to your Tablet PC documentation to determine whether WLAN or Bluetooth is activated)

\*Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation)

<b>Intel Pro/Wireless 2100 802.11b WLAN</b>	<b>Wireless LAN Standards</b>	IEEE 802. Part 11b (802.11b)		
	<b>Interoperability</b>	Wi-Fi certified		
	<b>Frequency Band</b>	2.4 GHz		
	<b>Data Rates</b>	802.11b; 1,2,5.5,11 Mbps		
	<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK		
	<b>Security</b>	64 and 128 bit WEP encryption Support for WiFi Protected Access (WPA) including TKIP, MIC Support for 802.1x authentication types: EAP-TLS, LEAP (Cisco), PEAP (Microsoft implementation) Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program).		
	<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.		
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK		
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)		
	<b>Roaming</b>	IEEE 802.11 compliant roaming between 802.11b access points		
	<b>Output Power</b>	16 dBm (typical)		
	<b>Power Consumption</b>	Transmit: 2.0 W (maximum) Receive: 1.5 W (maximum) Sleep mode: 200 mW, nominal		
	<b>Power Management</b>	ACPI compliant power management 802.11 Compliant Power Saving Mode		
	<b>Receiver Sensitivity*</b>	11 Mbps: -82 dBm to 1 Mbps: -89 dBm		
	<b>Antenna type</b>	High efficiency dual band antenna with polarization diversity, mounted in the display enclosure		
	<b>Range</b>	802.11b - Typical	1200 feet (365.85 m) - Outdoor Open Area	300 feet (91.46 m) - Indoor, Office environment
	<b>Form Factor</b>	MiniPCI Type IIIB		
	<b>Weight</b>	0.026 lb (11.75 gm) (maximum)		
	<b>Dimensions</b>	0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)		
	<b>Operating Voltage</b>	3.3 V		
	<b>Temperature</b>	Operating	32° to 158° F (0° to 70° C)	
		Non-operating	-40° to 176° F (-40° to 80° C)	
<b>Humidity</b>	Operating	0 to 90% (non-condensing)		
	Non-operating	5 to 95% (non-condensing)		
<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)		
	Non-operating	0 to 50,000 ft (15,240 m)		

### Technical Specifications

<b>Configuration Utility</b>	Choice of Configuration Utility: <ul style="list-style-type: none"> <li>● Intel ProSet (required for Cisco Compatible Extensions support)</li> <li>● Microsoft Windows XP Wireless Zero Configuration Utility</li> </ul> <p><b>NOTE:</b> May also be compatible with certain third party software suppliers.</p>
<b>LED Activity</b>	LED Off - Radio OFF; Solid LED - Radio ON
	*Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation)

#### Bluetooth by HP

<b>Form Factor</b>	Integrated USB module
<b>Bluetooth</b>	1.1 Compliant
<b>Dimensions</b>	26 x 14 x 5.7 mm
<b>Temperature</b>	Operating -4° to 158° F (-20° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	10 to 90% operating 5 to 95% non operating
<b>Altitude</b>	Operating 15,000 ft (4572 m) Non-operating 40,000 ft (12,192 m)
<b>Plug and Play</b>	USB 1.1 compliant Microsoft Windows Plug and Play compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	79 (1 MHz) available channels
<b>Data Rates and throughput</b>	1 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 723.2 kbps/57.6 kbps asymmetric or 433.9 kbps symmetric
<b>Antenna type</b>	Internally integrated within module
<b>Range</b>	33 ft (10 m)
<b>Software Stack Supported</b>	User may choose: Microsoft User Interface (Profiles supported: HID, DUN, HCRP) Widcomm User Interface (see profile support below)
<b>Profile Support</b>	General Access Profile Service Discovery Application Profile Serial Port Profile Generic Object Exchange Profile File Transfer Profile Synchronization Profile Dial-Up Networking Profile LAN Access Profile Object Push Profile Hard Copy Cable Replacement Profile Personal Area Networking Profile Human Interface Device Profile

### Technical Specifications

#### Usage Models

Service Discovery (determine what Bluetooth devices are within range and support authorization)

#### Synchronization:

PDA's to PCs

Portable to Desktop

#### File Transfer:

File and directory browsing and navigation on another Bluetooth device.

File copying

Object manipulation - including add, delete, create new folders etc.

Wireless link to Corporate LAN using several Bluetooth devices sharing the same

#### Access Point:

Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP

Wireless link to WAN thru cell phone

Agnostic to WAN technology

Send/receive SMS messages

Wireless link to Printer

Adhoc peer to peer networking (two computers) or Personal Area Networking (PAN) using NDIS (< 7 computers)

Adhoc Bluetooth Pico-networking (point to multi-point)

Object Push - Business card or appointment exchange

#### Human Interface Devices

Wirelessly interface to notebook with mouse, keyboard, etc

#### Printing

Wirelessly print to Bluetooth enabled printers

#### Transmit Power

-6dBm to 4 dBm (Bluetooth Class II)

#### Receive Sensitivity

Better than -80 dBm at 0.1 % raw bit error rate

#### Link Topology

Point to Point, Multipoint Pico Nets up to 7 slaves

#### Security

Full support of Bluetooth Security Provisions

#### Network Architecture Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Points Required)

#### Power Requirement

Peak < 270 mW

#### Power Management

Microsoft Windows ACPI, and USB Bus Support

Wireless EAB On/Off

Software On/Off control

Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff

#### Protocols Supported

TCP/IP

IPX/SPX

UDP

#### LED Activity

Solid Green LED - Wireless Bluetooth or WLAN On

LED Off - Wireless Bluetooth and WLAN Power Off

(please refer to your Tablet PC documentation to determine whether WLAN or Bluetooth is activated)

#### Certifications

All necessary regulatory approvals for countries we support including

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

ETS 300 328, ETS 300 826

Low Voltage Directive IEC950

UL, CSA, and CE Mark

### *Technical Specifications*

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