



**Robustness and Performance to the Max**

**The Rugged Convertible Toughbook**

**Maximal Function. Minimal Size**

**Improving Operational Efficiency for Healthcare Professionals (Easy to clean/disinfect and meets Hospital Safety Certifications)**

Model Name	CF-30	CF-19	CF-U1	CF-H1
<b>Mobile Computing Platform / CPU</b>	<ul style="list-style-type: none"> <li>Intel® Centrino® 2 with vPro™ Technology</li> <li>– Intel® Core™ 2 Duo Processor SL9300 (1.6 GHz, 6 MB L2 cache, 1066 MHz FSB)</li> <li>– Mobile Intel® GS45 Express Chipset</li> <li>– Intel® Wireless WiFi Link 5100 AGN Network Connection (supporting 802.11a/b/g/n draft 2.0 compliant)</li> </ul>	<ul style="list-style-type: none"> <li>Intel® Centrino® 2 with vPro™ Technology</li> <li>– Intel® Core™ 2 Duo Processor SU9300 (1.2 GHz, 3 MB L2 cache, 800 MHz FSB)</li> <li>– Mobile Intel® GS45 Express Chipsets</li> <li>– Intel® Wireless WiFi Link 5100 AGN Network Connection (supporting 802.11a/b/g/n draft 2.0 compliant)</li> </ul>	<ul style="list-style-type: none"> <li>Intel® Atom™ Processor Z520 (1.33 GHz, 512 KB L2 cache)</li> <li>■ Intel® Wireless WiFi Link 5100 Series (802.11a/b/g/draft-n compliant)</li> </ul>	<ul style="list-style-type: none"> <li>Intel® Atom™ Processor Z540 (1.86 GHz, 512 KB L2 cache, 533 MHz FSB)</li> <li>■ Intel® Wireless WiFi Link 5100 Series (802.11a/b/g/draft-n compliant)</li> </ul>
<b>Operating System</b>	<ul style="list-style-type: none"> <li>■ Genuine Windows Vista® Business Service Pack 1</li> <li>■ Genuine Windows® XP Professional Service Pack 2 (Downgrade)</li> </ul>	<ul style="list-style-type: none"> <li>■ Genuine Windows Vista® Business Service Pack 1 (for Dual Touch and Touchscreen model) or</li> <li>■ Genuine Windows® XP Professional Service Pack 2 (Downgrade for Touchscreen model) or</li> <li>■ Genuine Windows® XP Tablet PC Edition 2005 (Downgrade for Dual Touch and Touchscreen model)</li> </ul>	<ul style="list-style-type: none"> <li>■ Genuine Windows Vista® Business Service Pack 1 or</li> <li>■ Genuine Windows® XP Professional Service Pack 2 (Downgrade)</li> </ul>	<ul style="list-style-type: none"> <li>■ Genuine Windows Vista® Business Service Pack 1 or</li> <li>■ Genuine Windows® XP Tablet PC with Service Pack 3 (Downgrade)</li> </ul>
<b>Storage &amp; Memory</b>	<ul style="list-style-type: none"> <li>■ 2 GB DDR2 SDRAM (max. 4 GB)</li> <li>■ 160 GB HDD (SATA, easy accessible, shock resistant – withstands 90cm drop); SSD with max. 32 GB available as option</li> </ul>	<ul style="list-style-type: none"> <li>■ 2 GB DDR2 SDRAM (max. 4 GB)</li> <li>■ 160 GB HDD (SATA, easy accessible, shock resistant – withstands 90cm drop); SSD with max. 32 GB available as option</li> </ul>	<ul style="list-style-type: none"> <li>■ 1 GB DDR2 SDRAM</li> <li>■ 16 GB HDD (Solid State Disk, 32 GB optional)</li> </ul>	<ul style="list-style-type: none"> <li>■ 1 GB DDR2 SDRAM</li> <li>■ 80 GB HDD (1.8" SATA)</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>■ 13.3" sunlight-viewable XGA Active Matrix (TFT) colour LCD with Touchscreen (up to 1000 cd/m²), 1024 x 768 pixels (XGA); 16 million colours; Concealed Mode</li> <li>■ Intel® Graphics Memory Control Hub; UMA (2 GB RAM: Win XP: max. 1024 MB; Win Vista: max. 797 MB)</li> </ul>	<ul style="list-style-type: none"> <li>■ 10.4" sunlight-viewable XGA Active Matrix (TFT) colour LCD with up to 1000 cd/m²</li> <li>■ Touchscreen model or Dual Touch model (Touchscreen and Digitizer)</li> <li>■ 1024 x 768 pixels (XGA); 16 million colours; Concealed Mode</li> <li>■ Intel® Graphics Memory Control Hub; UMA (2 GB RAM: Win XP: max. 1024 MB; Win Vista: max. 797 MB)</li> </ul>	<ul style="list-style-type: none"> <li>■ 5.6" (TFT) colour LCD with Touchscreen</li> <li>■ 1024 x 600 pixels (WSVGA)</li> </ul>	<ul style="list-style-type: none"> <li>■ 10.4" (TFT) colour LCD with Dual Touch (Touchscreen and Digitizer)</li> <li>■ 1024 x 768 pixels (XGA)</li> </ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>■ PC Card: 1 x Type I or 1x Type II (3.3 V: 400 mA, 5 V: 400 mA)</li> <li>■ Express Card: 1 x ExpressCard/34 or ExpressCard/54</li> <li>■ SD/SDHC Memory Card: 1 x</li> <li>■ Optional RAM Module: 1 x SO-DIMM (200-pin, 1.8 V, DDR2 SDRAM, PC2-5300 compliant)</li> </ul>	<ul style="list-style-type: none"> <li>■ PC Card: 1 x Type I or 1x Type II (3.3 V: 400 mA, 5 V: 400 mA)</li> <li>■ Express Card: 1 x ExpressCard/34 or ExpressCard/54</li> <li>■ SD/SDHC Memory Card: 1 x</li> <li>■ Optional RAM Module: 1 x SO-DIMM (200-pin, 1.8 V, DDR2 SDRAM, PC2-5300 Compliant)</li> </ul>	<ul style="list-style-type: none"> <li>■ SD/SDHC Memory Card: 1 x</li> </ul>	
<b>Multimedia Pocket</b>	<ul style="list-style-type: none"> <li>■ Will accept optional Combo Drive, Multi Drive</li> <li>■ Will accept optional 2<sup>nd</sup> battery</li> </ul>			
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>■ Serial (16550A compatible): D-sub, 9-pin</li> <li>■ External display (VGA port): Mini D-sub, 15-pin</li> <li>■ Headphone: Mini-jack, 3.5 DIA</li> <li>■ Microphone: Mini-jack, 3.5 DIA, stereo</li> <li>■ DC In: Jack</li> <li>■ USB 2.0: 3 x 4-pin</li> <li>■ Modem: RJ-11</li> <li>■ LAN: RJ-45</li> <li>■ Firewire (IEEE 1394a): 1 x 4-pin</li> <li>■ External Antenna: 2 x (Dedicated 50Ω coaxial connector)</li> <li>■ Port Replicator: 80-pin</li> </ul>	<ul style="list-style-type: none"> <li>■ Serial (16550A compatible): D-sub, 9-pin</li> <li>■ External display (VGA port): Mini D-sub, 15-pin</li> <li>■ Headphone: Mini-jack, 3.5 DIA</li> <li>■ Microphone: Mini-jack, 3.5 DIA, stereo</li> <li>■ DC In: Jack</li> <li>■ USB 2.0: 2 x 4-pin</li> <li>■ Modem: RJ-11</li> <li>■ LAN: RJ-45</li> <li>■ Firewire (IEEE 1394a): 1 x 4-pin</li> <li>■ External Antenna: 2 x (Dedicated 50Ω coaxial connector)</li> <li>■ Port Replicator: 100-pin</li> </ul>	<ul style="list-style-type: none"> <li>■ Headphone: Mini-jack, 3.5 DIA</li> <li>■ Microphone: Mini-jack, 3.5 DIA, stereo</li> <li>■ DC In: 1 x</li> <li>■ USB 2.0: 1 x</li> <li>■ Expansion connector: 1 x Cradle I/O</li> </ul>	<ul style="list-style-type: none"> <li>■ External Display: None (available via optional cradle)</li> <li>■ Serial (RS232C): None (available via optional cradle)</li> <li>■ LAN: None (available via optional cradle)</li> <li>■ USB 2.0: None (available via optional cradle)</li> <li>■ Docking connector: 1 x Cradle I/O</li> <li>■ DC In: 1 x</li> </ul>
<b>Wireless</b>	<ul style="list-style-type: none"> <li>■ WLAN: IEEE 802.11a/b/g/n draft 2.0 compliant (max. 300 Mbps); slide on/off switch</li> <li>■ Bluetooth™: Version 2.0 + EDR (Class 1), slide on/off switch</li> </ul>	<ul style="list-style-type: none"> <li>■ WLAN: IEEE 802.11a/b/g/n draft 2.0 compliant (max. 300 Mbps); slide on/off switch</li> <li>■ Bluetooth™: Version 2.0 + EDR (Class 1), slide on/off switch</li> </ul>	<ul style="list-style-type: none"> <li>■ WLAN: IEEE 802.11a/b/g/n draft 2.0 compliant (max. 300 Mbps)</li> <li>■ Bluetooth™: Version 2.0 + EDR (Class 1)</li> </ul>	<ul style="list-style-type: none"> <li>■ WLAN: IEEE 802.11a/b/g/n draft 2.0 compliant (max. 300 Mbps)</li> <li>■ Bluetooth™: Version 2.0 + EDR (Class 1)</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>■ AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 15.6 V DC, 5.0 A</li> <li>■ Battery: Li-ion (10.65 V, 8.55 Ah)</li> <li>■ Battery Life: Approx. 12.5 hours (Main Battery + 2nd Battery), approx. 9 hours (Main Battery), Mobile Mark™ 2007, 60 cd/m², Vista Model</li> <li>■ Charging time (main battery pack): Power off: approx. 5 hours; Power on: approx. 8.5 hours</li> <li>■ Power Consumption: Approx. 50 W (maximum when recharging)</li> </ul>	<ul style="list-style-type: none"> <li>■ AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 3.75 A</li> <li>■ Battery: Li-ion (10.65 V, 5.7 Ah)</li> <li>■ Battery Life: Approx. 9 hours (Vista model), approx. 10 hours (XP model), Mobile Mark™ 2007, 60 cd/m²</li> <li>■ Charging time (main battery pack): Power off: approx. 4.5 hours; Power on: approx. 6.5 hours</li> <li>■ Power Consumption: Approx. 60 W (maximum when recharging)</li> </ul>	<ul style="list-style-type: none"> <li>■ AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 3.75 A</li> <li>■ Battery: Li-ion (7.2 V, 2.9 Ah), 2 x 2 cell pack, hot swappable</li> <li>■ Battery Life: Approx. 9 hours, Mobile Mark™ 2005, 60cd/m², LCD brightness</li> <li>■ Charging time: Power off: approx. 7 hours; Power on: approx. 10 hours</li> <li>■ Power Consumption: Approx. 20 W / max. 60 W (maximum when recharging)</li> </ul>	<ul style="list-style-type: none"> <li>■ AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 3.75 A</li> <li>■ Battery: Li-ion (7.2 V, 2.9 Ah), 2 cell pack, hot swappable</li> <li>■ Battery Life: Approx. 6 hours, Mobile Mark™ 2007, 60cd/m², LCD brightness</li> <li>■ Charging time: Power off: approx. 3.5 hours (1 Battery Pack), approx. 7 hours (2 Battery Packs) (Power on: approx. 6.5 hours (1 Battery Pack), approx. 13 hours (2 Battery Packs))</li> <li>■ Power Consumption: Approx. 30 W</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>■ Adobe® Reader, PC Information Viewer, Loupe Utility, Intel® PROSet/Wireless Software™7, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Panasonic Hand Writing, Display Rotation Tool, Infineon TPM Professional Package, Power Saving Utility, Wireless Connection Disable Utility, Concealed Mode Utility, Setup Utility, Hard Disk Data Erase Utility, PC-Diagnostic Utility</li> </ul>	<ul style="list-style-type: none"> <li>■ Adobe® Reader, PC Information Viewer, Loupe Utility, Intel® PROSet/Wireless Software, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Panasonic Hand Writing, Display Rotation Tool, Infineon TPM Professional Package, Power Saving Utility, Wireless Connection Disable Utility, Concealed Mode Utility Setup Utility, Hard Disk Data Erase Utility, PC-Diagnostic Utility</li> </ul>	<ul style="list-style-type: none"> <li>■ Adobe® Reader 8, PC Information Viewer, Full Screen Zoom, Keyboard Button Manager, Intel® PROSet/Wireless WiFi Connection Utility, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package (only model with TPM), Setup Utility</li> </ul>	<ul style="list-style-type: none"> <li>■ Adobe® Reader 8, PC Information Viewer, Keyboard Button Manager, Intel® PROSet / Wireless WiFi Connection Utility, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Battery Recalibration Utility, Infineon TPM Professional Package</li> </ul>
<b>Security Feature</b>	<ul style="list-style-type: none"> <li>■ TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>■ Integrated hardware security lock slot</li> <li>■ Password security (supervisor password, user password, HDD lock)</li> </ul>	<ul style="list-style-type: none"> <li>■ TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>■ Integrated hardware security lock slot</li> <li>■ Password security (supervisor password, user password, HDD lock)</li> </ul>	<ul style="list-style-type: none"> <li>■ TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>■ Integrated hardware security lock slot</li> <li>■ Password security (supervisor password, user password, HDD lock)</li> </ul>	<ul style="list-style-type: none"> <li>■ TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>■ Fingerprint Reader</li> <li>■ Contactless Smartcard Reader ISO 14443 type A7B</li> </ul>
<b>Dimensions &amp; Weight (W x H x D)</b>	<ul style="list-style-type: none"> <li>■ 302 mm x 67.5 mm/69.5 mm x 282 mm, 11.9" x 2.7"/2.8" x 11.5" (excluding protrusions; front/back)</li> <li>■ 3.8 kg / 8.4 lb (including battery and carry handle – excluding dummy cards and dummy pack)</li> </ul>	<ul style="list-style-type: none"> <li>■ 271 mm x 49 mm x 216 mm, 10.7" x 1.93" x 8.5" (excluding protrusions)</li> <li>■ 2.3 kg / 5.07 lb (including battery)</li> </ul>	<ul style="list-style-type: none"> <li>■ 184 mm x 151 mm x 57 mm, 7.24" x 5.94" x 2.24" (including hand strap)</li> <li>■ 1.06 kg / 2.30 lb (including hand strap)</li> </ul>	<ul style="list-style-type: none"> <li>■ 264 mm x 268 mm x 34 – 58 mm, 10.4" x 10.6" x 1.3 – 2.3" (including hand strap)</li> <li>■ 1.5 kg / 3.40 lb (including hand strap)</li> </ul>
<b>Options for Integration</b>	<ul style="list-style-type: none"> <li>■ GPS</li> <li>■ Fingerprint Reader (Project driven)</li> <li>■ Smart Card Reader (Project driven)</li> <li>■ 3G Mobile Broadband (HSPA, up to 7.2 Mbps)</li> <li>■ Solid State Disk (max. 32 GB – Project driven)</li> </ul>	<ul style="list-style-type: none"> <li>■ GPS</li> <li>■ Fingerprint Reader (Project driven)</li> <li>■ Smart Card Reader (Project driven)</li> <li>■ 3G Mobile Broadband (HSPA, up to 7.2 Mbps)</li> <li>■ Solid State Disk (max. 32 GB – Project driven)</li> <li>■ 2 MP camera with dual LED light (Project driven)</li> </ul>	<ul style="list-style-type: none"> <li>■ GPS</li> <li>■ Fingerprint Reader</li> <li>■ Bar Code Reader (1 D or 2 D)</li> <li>■ 3G Mobile Broadband (HSPA, up to 7.2 Mbps)</li> <li>■ 32 GB SSD (Project driven)</li> <li>■ Camera with dual LED light</li> </ul>	<ul style="list-style-type: none"> <li>■ GPS</li> <li>■ Bar Code Reader</li> <li>■ Camera: 2 MP Camera with Autofocus and dual LED light (2 D, 1D Barcode is also readable)</li> <li>■ 3G Mobile Broadband (HSPA, up to 7.2 Mbps)</li> <li>■ Standard: ■ RFID Reader: ISO 15693</li> </ul>
<b>Ruggedization</b>	<ul style="list-style-type: none"> <li>■ Vibration, drop (90cm) and shock resistant (MIL-STD 810F)</li> <li>■ Water and dust resistant (IP54, MIL-STD 810F)</li> </ul>	<ul style="list-style-type: none"> <li>■ Vibration, drop (90cm) and shock resistant (MIL-STD 810F)</li> <li>■ Water and dust resistant (IP54, MIL-STD 810F)</li> </ul>	<ul style="list-style-type: none"> <li>■ Vibration, drop (120cm) and shock resistant (MIL-STD 810F)</li> <li>■ Water and dust resistant (IP54, MIL-STD 810F)</li> </ul>	<ul style="list-style-type: none"> <li>■ Vibration, drop (90cm) and shock resistant</li> <li>■ Desinfection, water and dust resistant (IP54)</li> </ul>



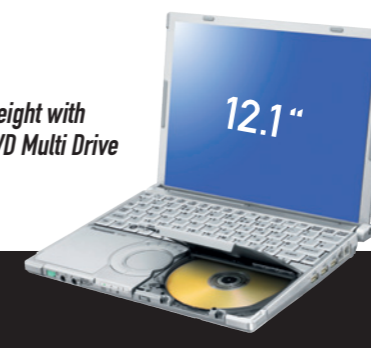
**Robust All-Round Capability in Widescreen Format**



**World's Lightest Mobile PC with Widescreen and Internal Optical Drive**



**Ultra-Lightweight with Integrated DVD Multi Drive**



**Ultra-Lightweight with Touchscreen**



Model Name	CF-52	CF-F8	CF-W8	CF-T8
<b>Mobile Computing Platform / CPU</b>	<ul style="list-style-type: none"> <li>Intel® Centrino® Duo Processor Technology Platform</li> <li>– Intel® Core™ 2 Duo Processor P8400 (2.26 GHz, 3MB L2 cache, 1066 MHz FSB)</li> <li>– Mobile Intel® GM45 Express Chipset</li> <li>– Intel® Wireless WiFi link 5100 AGN (802.11 a/b/g/draft-n compliant)</li> </ul>	<ul style="list-style-type: none"> <li>Intel® Centrino® 2 with vPro™ technology</li> <li>– Intel® Core™ 2 Duo processor SP9400 (2.40 GHz, 6 MB L2 cache, 1066 MHz FSB)</li> <li>– Mobile Intel® GS45 Express Chipset</li> <li>– Intel® Wireless WiFi link 5100 AGN Network Connection (supporting 802.11 a/b/g, n draft 2.0 compliant)</li> </ul>	<ul style="list-style-type: none"> <li>Intel® Centrino® 2 with vPro™ technology</li> <li>– Intel® Core™ 2 Duo processor SU9400 (1.40 GHz, 3 MB L2 cache, 800 MHz FSB)</li> <li>– Mobile Intel® GS45 Express Chipset</li> <li>– Intel® Wireless WiFi link 5100 AGN Network Connection (supporting 802.11 a/b/g, n draft 2.0 compliant)</li> </ul>	<ul style="list-style-type: none"> <li>Intel® Centrino® 2 with vPro™ technology</li> <li>– Intel® Core™ 2 Duo processor SU9400 (1.40 GHz, 3 MB L2 cache, 800 MHz FSB)</li> <li>– Mobile Intel® GS45 Express Chipset</li> <li>– Intel® Wireless WiFi link 5100 AGN Network Connection (supporting 802.11 a/b/g, n draft 2.0 compliant)</li> </ul>
<b>Operating System</b>	<ul style="list-style-type: none"> <li>Genuine Windows Vista® Business Service Pack 1 or</li> <li>Genuine Windows® XP Professional Service Pack 2 (Downgrade)</li> </ul>	<ul style="list-style-type: none"> <li>Genuine Windows Vista® Business Service Pack 1 (including XP Downgrade License) or</li> <li>Genuine Windows® XP Professional (Downgrade Service with Vista® License)</li> </ul>	<ul style="list-style-type: none"> <li>Genuine Windows Vista® Business Service Pack 1 (including XP Downgrade License) or</li> <li>Genuine Windows® XP Professional (Downgrade Service with Vista® License)</li> </ul>	<ul style="list-style-type: none"> <li>Genuine Windows Vista® Business Service Pack 1 (including XP Downgrade License) or</li> <li>Genuine Windows® XP Professional (Downgrade Service with Vista® License)</li> </ul>
<b>Storage &amp; Memory</b>	<ul style="list-style-type: none"> <li>1 GB DDR2 SDRAM (expandable to 2 GB + 2 GB on project basis)</li> <li>160 GB HDD (SATA, shock resistant, withstands a 76 cm** drop)</li> </ul>	<ul style="list-style-type: none"> <li>2 GB (DDR2-533 SDRAM, max. 4 GB)</li> <li>250 GB (SATA, shock resistant and easy accessible)</li> </ul>	<ul style="list-style-type: none"> <li>2 GB (DDR2-533 SDRAM, max. 4 GB)</li> <li>160 GB (SATA, shock resistant and easy accessible)</li> </ul>	<ul style="list-style-type: none"> <li>2 GB (DDR2-533 SDRAM, max. 4 GB)</li> <li>160 GB (SATA, shock resistant and easy accessible)</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>Bright 15.4" Active Matrix (TFT) colour LCD, 1280 x 800 pixels (WXGA); 16 million colours</li> <li>Intel® GM45 graphics controller; UMA (1GB RAM: max. 1024MB with Win XP; max. 1423MB with Win Vista®)</li> </ul>	<ul style="list-style-type: none"> <li>14.1" anti-glare Active Matrix (TFT) colour LCD (flexibly mounted), 1280 x 800 pixel (WXGA), 16 million colours</li> <li>Intel® GS45 graphics controller; UMA (Win XP: max. 1024 MB; Win Vista: max. 1551 MB with additional 2 GB memory)</li> </ul>	<ul style="list-style-type: none"> <li>12.1" anti-glare Active Matrix (TFT) colour LCD (flexibly mounted), 1024 x 768 pixel (XGA), 16 million colours</li> <li>Intel® GS45 graphics controller; UMA (Win XP: max. 1024 MB; Win Vista: max. 1551 MB with additional 2 GB memory)</li> </ul>	<ul style="list-style-type: none"> <li>12.1" anti-glare Active Matrix (TFT) colour LCD with Touchscreen (flexibly mounted), 1024 x 768 pixel (XGA), 16 million colours</li> <li>Intel® GS45 graphics controller; UMA (Win XP: max. 1024 MB; Win Vista: max. 1551 MB with additional 2 GB memory)</li> </ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>PC Card: 1 x Type I or 1x Type II (3.3 V: 400 mA, 5 V: 400 mA)</li> <li>Express Card: 1 x ExpressCard/34 or ExpressCard/54</li> <li>SD/SDHC Memory Card: 1 x</li> <li>Optional RAM Module: 1 x SO-DIMM (200-pin, 1.8 V, DDR2 SDRAM, PC2-6400 compliant)</li> </ul>	<ul style="list-style-type: none"> <li>PC Card: 1 x Type I or Type II (3.3 V: 400 mA, 5 V: 400 mA)</li> <li>SD/SDHC Memory Card: 1 x</li> <li>RAM Module: 1x DDR2 200-pin SO-DIMM (1.8 V / PC2-5300 / DDR2 SDRAM)</li> </ul>	<ul style="list-style-type: none"> <li>PC Card: 1 x Type I or Type II (3.3 V: 400 mA, 5 V: 400 mA)</li> <li>SD/SDHC Memory Card: 1 x</li> <li>RAM Module: 1x DDR2 200-pin SO-DIMM (1.8 V / PC2-5300 / DDR2 SDRAM)</li> </ul>	<ul style="list-style-type: none"> <li>PC Card: 1 x Type I or Type II (3.3 V: 400 mA, 5 V: 400 mA)</li> <li>SD/SDHC Memory Card: 1 x</li> <li>RAM Module: 1x DDR2 200-pin SO-DIMM (1.8 V / PC2-5300 / DDR2 SDRAM)</li> </ul>
<b>Multimedia Pocket</b>	<ul style="list-style-type: none"> <li>DVD Multi Drive</li> </ul>	<ul style="list-style-type: none"> <li>DVD Multi Drive</li> </ul>	<ul style="list-style-type: none"> <li>DVD Multi Drive</li> </ul>	
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>Serial (16550A compatible): D-sub, 9-pin</li> <li>External display (VGA port): Mini D-sub, 15-pin</li> <li>Headphone: Mini-jack, 3.5 DIA, stereo</li> <li>Microphone: Mini-jack, 3.5 DIA, stereo</li> <li>DC In: Jack</li> <li>USB 2.0: 4 x 4-pin</li> <li>Modem: RJ-11</li> <li>LAN: RJ-45</li> <li>Firewire (IEEE 1394a): 1 x 4-pin</li> <li>Port Replicator: 100-pin</li> </ul>	<ul style="list-style-type: none"> <li>External display (VGA port): Mini D-sub, 15-pin</li> <li>Headphone: Mini-jack, 3.5 DIA, stereo</li> <li>Microphone: Mini-jack, 3.5 DIA, stereo</li> <li>DC In: Jack</li> <li>USB 2.0: 3 x 4-pin</li> <li>Modem: RJ-11</li> <li>LAN: RJ-45</li> <li>Port Replicator: 78-pin</li> </ul>	<ul style="list-style-type: none"> <li>External display (VGA port): Mini D-sub, 15-pin</li> <li>Headphone: Mini-jack, 3.5 DIA, stereo</li> <li>Microphone: Mini-jack, 3.5 DIA, stereo</li> <li>DC In: Jack</li> <li>USB 2.0: 3 x 4-pin</li> <li>Modem: RJ-11</li> <li>LAN: RJ-45</li> <li>Mini Port Replicator: 50-pin</li> </ul>	<ul style="list-style-type: none"> <li>External display (VGA port): Mini D-sub, 15-pin</li> <li>Headphone: Mini-jack, 3.5 DIA, stereo</li> <li>Microphone: Mini-jack, 3.5 DIA, stereo</li> <li>DC In: Jack</li> <li>USB 2.0: 3 x 4-pin</li> <li>Modem: RJ-11</li> <li>LAN: RJ-45</li> <li>Mini Port Replicator: 50-pin</li> </ul>
<b>Wireless</b>	<ul style="list-style-type: none"> <li>WLAN: IEEE 802.11a/b/g/n draft 2.0 compliant slide on/off switch</li> <li>Bluetooth™: Version 2.0 + EDR (Class 1), slide on/off switch</li> </ul>	<ul style="list-style-type: none"> <li>WLAN: IEEE 802.11a/b/g, n draft 2.0 compliant; slide on/off switch</li> <li>Bluetooth™: Version 2.0 + EDR (Class 1), slide on/off switch</li> </ul>	<ul style="list-style-type: none"> <li>WLAN: IEEE 802.11a/b/g, n draft 2.0 compliant; slide on/off switch</li> <li>Bluetooth™: Version 2.0 + EDR (Class 1), slide on/off switch</li> </ul>	<ul style="list-style-type: none"> <li>WLAN: IEEE 802.11a/b/g, n draft 2.0 compliant; slide on/off switch</li> <li>Bluetooth™: Version 2.0 + EDR (Class 1), slide on/off switch</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 8.0 A</li> <li>Battery: Li-ion (11.1 V, 7.8 Ah)</li> <li>Battery Life: Approx. 7 hours, Vista model, LCD bright. 60 cd/m²</li> <li>Charging time: Power on: approx. 4 hours</li> <li>Power Consumption: Approx. 45 W – max. 100 W (maximum when recharging)</li> </ul>	<ul style="list-style-type: none"> <li>AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 5.0 A</li> <li>Battery: Li-ion (10.8 V, 5.8 Ah)</li> <li>Battery Life: Approx. 6 hours (Mobile Mark™ 2007, LCD bright. 60 cd/m², Vista® Model, Economy Mode (ECO) disabled)</li> <li>Charging time: Power off: approx. 5 hours; Power on: approx. 6.5 hours</li> <li>Power Consumption: Approx. 35 W / max. 80 W (maximum when recharging)</li> </ul>	<ul style="list-style-type: none"> <li>AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 3.75 A</li> <li>Battery: Li-ion (10.8 V, 5.8 Ah)</li> <li>Battery Life: Approx. 8 hours (Mobile Mark™ 2007, LCD bright. 60 cd/m², Vista® Model, Economy Mode (ECO) disabled)</li> <li>Charging time: Power off: approx. 5 hours; Power on: approx. 6.5 hours</li> <li>Power Consumption: Approx. 30 W / max. 60 W (maximum when recharging)</li> </ul>	<ul style="list-style-type: none"> <li>AC Adapter: Input: 100 ~ 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 3.75 A</li> <li>Battery: Li-ion (10.8 V, 5.8 Ah)</li> <li>Battery Life: Approx. 8 hours (Mobile Mark™ 2007, LCD bright. 60 cd/m², Vista® Model, Economy Mode (ECO) disabled)</li> <li>Charging time: Power off: approx. 5 hours; Power on: approx. 6.5 hours</li> <li>Power Consumption: Approx. 25 W / max. 60 W (maximum when recharging)</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>Adobe® Reader, WinDVD™ (OEM Version), B's Recorder GOLD9 BASIC, B's CLIP 7, PC Diagnostic Utility</li> </ul>	<ul style="list-style-type: none"> <li>Microsoft® Internet Explorer, DirectX, Microsoft® Windows® Media Player, Microsoft® Windows® Movie Maker, Microsoft® .NET Framework, Adobe® Reader, Loupe Utility, Touch Pad Utility, PC Information Viewer, PC Information Popup, WinDVD™ 8 (OEM Version), Roxio Creator LJB, Hotkey Settings, Optical Disc Drive Letter-Setting Utility, Panasonic Power Plan Extension Utility, Wireless Switch Utility, Wireless Connection Disable Utility, Bluetooth Stack for Windows by TOSHIBA, Battery Recalibration Utility, Infineon TPM Professional Package V3.5 SP1, Setup Utility, Hard Disk Data Erase Utility, PC-Diagnostic Utility</li> </ul>	<ul style="list-style-type: none"> <li>Microsoft® Internet Explorer, DirectX, Microsoft® Windows® Media Player, Microsoft® Windows® Movie Maker, Microsoft® .NET Framework, Adobe® Reader, Loupe Utility, Touch Pad Utility, PC Information Viewer, PC Information Popup, WinDVD™ 8 (OEM Version), Roxio Creator LJB, Hotkey Settings, Optical Disc Drive Letter-Setting Utility, Panasonic Power Plan Extension Utility, Wireless Switch Utility, Wireless Connection Disable Utility, Bluetooth Stack for Windows by TOSHIBA, Battery Recalibration Utility, Infineon TPM Professional Package V3.5 SP1, Setup Utility, Hard Disk Data Erase Utility, PC-Diagnostic Utility</li> </ul>	<ul style="list-style-type: none"> <li>Microsoft® Internet Explorer, DirectX, Microsoft® Windows® Media Player, Microsoft® Windows® Movie Maker, Microsoft® .NET Framework, Adobe® Reader, Loupe Utility, Touch Pad Utility, PC Information Viewer, PC Information Popup, Display Rotation Tool, Hotkey Settings, Panasonic Power Plan Extension Utility, Wireless Switch Utility, Wireless Connection Disable Utility, Bluetooth Stack for Windows by TOSHIBA, Battery Recalibration Utility, Infineon TPM Professional Package V3.5 SP1, Setup Utility, Hard Disk Data Erase Utility, PC-Diagnostic Utility</li> </ul>
<b>Security Feature</b>	<ul style="list-style-type: none"> <li>TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>Integrated hardware security lock slot</li> <li>Password security (supervisor password, user password, HDD lock)</li> </ul>	<ul style="list-style-type: none"> <li>TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>Integrated hardware security lock slot</li> <li>Password security (supervisor password, user password, HDD lock)</li> <li>Optional Fingerprint Scanner available at future date (eliminates Bluetooth™)</li> </ul>	<ul style="list-style-type: none"> <li>TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>Integrated hardware security lock slot</li> <li>Password security (supervisor password, user password, HDD lock)</li> <li>Optional Fingerprint Scanner available at future date (eliminates Bluetooth™)</li> </ul>	<ul style="list-style-type: none"> <li>TPM (Trusted Platform Module, TCG V1.2 compliant)</li> <li>Integrated hardware security lock slot</li> <li>Password security (supervisor password, user password, HDD lock)</li> <li>Optional Fingerprint Scanner available at future date (eliminates Bluetooth™)</li> </ul>
<b>Dimensions &amp; Weight (W x H x D)</b>	<ul style="list-style-type: none"> <li>355.7 mm x 286.8 mm x 50.7 – 51.9 mm, 14.0" x 11.3" x 2.0" (including carrying handle)</li> <li>3.4 kg / 7.5 lb (including carrying handle)</li> </ul>	<ul style="list-style-type: none"> <li>326 mm x 25.5 / 48.5 mm x 251 mm / 12.8" x 1.0" / 1.9" x 9.9" (excluding protrusions; *front/back)</li> <li>1.66 kg / 3.66 lb (standard model including battery)</li> </ul>	<ul style="list-style-type: none"> <li>272 mm x 24.9 / 45.3 mm x 214.3mm / 10.7" x 1.0" / 1.8" x 8.4" (standard model excluding protrusions; *front/back)</li> <li>1.28 kg / 2.82 lb (standard model including battery)</li> </ul>	<ul style="list-style-type: none"> <li>272 mm x 27.9 / 48.3 mm x 214.3 mm / 10.7" x 1.0" / 1.9" x 8.4" (standard model excluding protrusions; *front/back)</li> <li>1.385 kg / 3.05 lb (standard model including battery)</li> </ul>
<b>Options for Integration</b>	<ul style="list-style-type: none"> <li>Fingerprint Reader (Project driven)</li> <li>Smart Card Reader (Project driven)</li> <li>UMTS/HSDPA module</li> </ul>	<ul style="list-style-type: none"> <li>3G Mobile Broadband (HSPA, up to 7.2 Mbps)</li> <li>Fingerprint Reader available at future date (eliminates Bluetooth™)</li> </ul>	<ul style="list-style-type: none"> <li>3G Mobile Broadband (HSPA, up to 7.2 Mbps)</li> <li>Fingerprint Reader available at future date (eliminates Bluetooth™)</li> </ul>	<ul style="list-style-type: none"> <li>3G Mobile Broadband (HSPA, up to 7.2 Mbps)</li> <li>Fingerprint Reader available at future date (eliminates Bluetooth™)</li> </ul>
<b>Ruggedization</b>	<ul style="list-style-type: none"> <li>Vibration, drop (76cm) and shock resistant (MIL-STD 810F)</li> <li>Water resistant touchpad, keyboard</li> </ul>	<ul style="list-style-type: none"> <li>Drop resistant (76 cm)</li> <li>Water resistant touchpad, keyboard</li> <li>Withstands 100kgf pressure</li> </ul>	<ul style="list-style-type: none"> <li>Drop resistant (76 cm)</li> <li>Water resistant touchpad, keyboard</li> <li>Withstands 100kgf pressure</li> </ul>	<ul style="list-style-type: none"> <li>Drop resistant (76 cm)</li> <li>Water resistant touchpad, keyboard</li> <li>Withstands 100kgf pressure</li> </ul>