

## SATELLITE PRO 410 SERIES Product Specifications

|                                         | Satellite Pro 410CS<br>810MB: PA1215U-S2A                                                                        | Satellite Pro 410CDT<br>810MB: PA1215U-T2C |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>PROCESSOR</b>                        |                                                                                                                  |                                            |
| Intel SL-Enh. Pentium 90Mhz(2.9V/3.3V)  | Yes                                                                                                              | Yes                                        |
| Integrated Coprocessor                  | Yes                                                                                                              | Yes                                        |
| Processor Cache                         | 16KB: (8KB code; 8KB data)                                                                                       | 16KB: (8KB code; 8KB data)                 |
| <b>STORAGE</b>                          |                                                                                                                  |                                            |
| Fixed HDD (2.5" Enhanced IDE)           | 810mb=770MB (13msec)                                                                                             | 810mb=770MB (13msec)                       |
| Modular FDD (3.5" 1.44MB)               | Integrated                                                                                                       | Bundled/Swappable with CD                  |
| FDD Dimensions                          | 4.47"L x 3.78"W x .6"H                                                                                           | 4.47"L x 3.78"W x .6"H                     |
| FDD Weight                              | Weight: .29 lbs                                                                                                  | Weight: .29 lbs                            |
| <b>Modular CD-ROM: Toshiba XM-1202B</b> |                                                                                                                  |                                            |
| 5.25"Quad-speed (4x)                    | <b>Optional/Swappable with FDD</b>                                                                               | <b>Installed/Swappable with FDD</b>        |
| Interface                               | .ATAPI (Enhanced IDE)                                                                                            | .ATAPI (Enhanced IDE)                      |
| Average Access Time                     | 210 ms                                                                                                           | 210 ms                                     |
| Sustained Transfer Rate                 | 684 KB/sec                                                                                                       | 684 KB/sec                                 |
| Supported Disc formats                  | CD-DA, CD-ROM, CD-ROM XA, Audio CD, Photo-CD, Multisession, CD-Bridge, CD-I, CD-I Ready, ISO 9660 compliant Disc |                                            |
| <b>MEMORY: 16Mbit EDO DRAM, 3.3V</b>    |                                                                                                                  |                                            |
| Standard                                | 8MB                                                                                                              | 8MB                                        |
| Maximum                                 | 40MB                                                                                                             | 40MB                                       |
| Speed (hyper-page mode supported)       | 60ns                                                                                                             | 60ns                                       |
| Data width                              | 64 bit                                                                                                           | 64 bit                                     |
| BIOS (128KB FLASH EPROM, 150ns)         | Yes                                                                                                              | Yes                                        |
| PnP 1.0a SUPPORT                        | Yes                                                                                                              | Yes                                        |
| <b>DISPLAY</b>                          |                                                                                                                  |                                            |
| Type                                    | Dual Scan Color Passive Matrix                                                                                   | TFT Active Matrix Color                    |
| Size                                    | 11.3" (9"W x 6.75"H)                                                                                             | 11.3" (9"W x 6.75"H)                       |
| Dot Pitch                               | .28mm x .28mm                                                                                                    | .28mm x .28mm                              |
| Contrast Ratio                          | 25:1 (typ); 15:1 (min)                                                                                           | 100:1 (min)                                |
| <b>VIDEO</b>                            |                                                                                                                  |                                            |
| VRAM: 4Mbit DRAM, 5V                    | 1 MB                                                                                                             | 1 MB                                       |
| Speed (fast-page mode supported)        | 60ns                                                                                                             | 60ns                                       |
| Controller Chip                         | C&T CT65548                                                                                                      | C&T CT65548                                |
| Bus Type                                | Vesa Local Bus                                                                                                   | Vesa Local Bus                             |
| Graphics Accelerator                    | BitBLT support                                                                                                   | BitBLT support                             |
| Color Palette                           | 262,144 colors                                                                                                   | 262,144 colors                             |
| Internal Resolution                     | 800 x 600 x 256 colors                                                                                           | 800 x 600 x 64K colors                     |
| Virtual Display Mode                    | N/A                                                                                                              | 1024 x 768 x 256 colors                    |
| External Resolution <sup>1</sup>        | <u>Colors/Palette</u>                                                                                            | <u>Colors/Palette</u>                      |
|                                         | 640 x 480                                                                                                        | 16.7M colors/16.7M colors                  |
|                                         | 800x600                                                                                                          | 64K colors/64K colors                      |
|                                         | 1024 x 768                                                                                                       | 256 colors/256K                            |
| Refresh Rate(Vert./Hor.) <sup>2</sup>   | 75Hz/60Hz                                                                                                        | 75Hz/60Hz                                  |
| <b>KEYBOARD</b>                         |                                                                                                                  |                                            |
| 82 keys, 3mm Travel                     | Yes                                                                                                              | Yes                                        |
| 12 dedicated function keys              | Yes                                                                                                              | Yes                                        |
| Cursor control (8 Keys, Inverted "T")   | Yes                                                                                                              | Yes                                        |
| Numeric keypad (Integrated Overlay)     | Yes                                                                                                              | Yes                                        |
| <b>Integrated Pointing Device</b>       |                                                                                                                  |                                            |
|                                         | AccuPoint™                                                                                                       | AccuPoint™                                 |

<sup>1</sup>. SVGA color requires Windows driver included by Toshiba. Simultaneous viewing not provided at resolutions greater than 640 x 480 x 256colors. <sup>2</sup>. Refresh rate taken @ 1024x768 Non-Interlaced.

## SATELLITE PRO 410 SERIES Product Specifications

|                                                          | Satellite Pro 410CS (con.)<br>810MB: PA1215U-S2A                                                                                                                                                                                                                             | Satellite Pro 410CDT (con.)<br>810MB: PA1215U-T2C |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>EXPANSION SLOTS</b>                                   |                                                                                                                                                                                                                                                                              |                                                   |
| One Stacked PC Card Slot <sup>3</sup>                    | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| Internal Memory Slot                                     | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| <b>EXPANSION PORTS</b>                                   |                                                                                                                                                                                                                                                                              |                                                   |
| One 9-Pin Serial (16550 UART compliant)                  | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| One 25-Pin Parallel (ECP)                                | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| One 15-Pin RGB (SVGA video)                              | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| One 101 Key Keyboard/Mouse port (PS/2)                   | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| One External Floppy Drive port                           | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| Microphone (monoaural)                                   | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| Headphone (stereo)                                       | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| Line-in (stereo)                                         | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| Infrared port                                            | Yes: IrDA 115.2Kbps compatible                                                                                                                                                                                                                                               | Yes: IrDA 115.2Kbps compatible                    |
| <b>Enh. Port Replicator w/PC card Slots</b>              | <b>Optional: Part# PA2711UX</b>                                                                                                                                                                                                                                              | <b>Optional: Part# PA2711UX</b>                   |
| <b>POWER</b>                                             |                                                                                                                                                                                                                                                                              |                                                   |
| <b>INTERNAL AC Power Unit</b>                            | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| Input (Voltage/Frequency)                                | 100-240V; 50-60Hz                                                                                                                                                                                                                                                            | 100-240V; 50-60Hz                                 |
| Output (Voltage/Amps)                                    | 15 VDC; 2.0A                                                                                                                                                                                                                                                                 | 15 VDC; 2.0A                                      |
| Power Output (Watts)                                     | 30W                                                                                                                                                                                                                                                                          | 30W                                               |
| Battery Type: Li-Ion (10.8V, 3600mAH)                    | Yes: Part# PA2487UR                                                                                                                                                                                                                                                          | Yes: Part# PA2487UR                               |
| Battery Life                                             | 2.5+ hrs.                                                                                                                                                                                                                                                                    | 2.5+ hrs.                                         |
| Recharge Time (Computer Off/On)                          | 2-3 hrs.(Off) /5-8 hrs.(On)                                                                                                                                                                                                                                                  | 2-3 hrs.(Off) /5-8 hrs.(On)                       |
| MaxTime® Power Management                                | Yes                                                                                                                                                                                                                                                                          | Yes                                               |
| <b>SOUND SYSTEM (All Models)</b>                         | 16bit stereo. Supports SoundBlaster Pro™, .WAV & MIDI files<br>Chipsets: ESS Technologies ESS688 & Yamaha OPL3 (YMF262)                                                                                                                                                      |                                                   |
| <b>W/single front-mounted speaker</b>                    |                                                                                                                                                                                                                                                                              |                                                   |
| <b>DIMENSIONS</b>                                        | 11.8"W x 9.25"D x 2.2"                                                                                                                                                                                                                                                       | 11.8"W x 9.25"D x 2.2"                            |
| <b>WEIGHT (includes 1.32 lbs. battery)</b>               | <7.0 LBS.                                                                                                                                                                                                                                                                    | 7.48 LBS.                                         |
| <b>BUNDLED SOFTWARE (All Models)<sup>4</sup></b>         | <b>Choice of</b> Windows 95 <b>or</b> Windows for Workgroups 3.11 and MS-DOS 6.22® w/Special Enhancements; Toshiba Card Manager. ESS Sound System, Indeo™ Video Interactive 4.0; MagiCDisk, Animation Music Rack, Enhanced IDE Disk Driver, Puma TranXit (Infrared software) |                                                   |
| <b>NOTE: Satellite Pro 415CS offers Windows™ 95 only</b> |                                                                                                                                                                                                                                                                              |                                                   |
| <b>SECURITY (All Models)</b>                             | Kensington® slot, Power-on password, screen blank, keyboard lock                                                                                                                                                                                                             |                                                   |
| <b>WARRANTY</b>                                          | 3 YR Parts & Labor                                                                                                                                                                                                                                                           | 3 YR Parts & Labor                                |
| <b>ENVIRONMENTAL SPECIFICATIONS (All Models)</b>         |                                                                                                                                                                                                                                                                              |                                                   |
|                                                          | <u>Operating</u>                                                                                                                                                                                                                                                             | <u>Non-operating</u>                              |
| Temperature:                                             | 41°F (5°C) to 95°F (35°C)                                                                                                                                                                                                                                                    | -4°F (-20°C) to 149° (65°C)                       |
| Thermal Gradient 20°C per hour (max.)                    | N/A                                                                                                                                                                                                                                                                          | N/A                                               |
| Relative Humidity:                                       | 20% to 80% non-condensing                                                                                                                                                                                                                                                    | 10% to 90% non-condensing                         |
| Altitude:                                                | -197 to 9,843ft.                                                                                                                                                                                                                                                             | -197 to 32,808ft.                                 |
| Shock:                                                   | 10G                                                                                                                                                                                                                                                                          | 60G                                               |
| Vibration:                                               | 0.25G                                                                                                                                                                                                                                                                        | 1G                                                |

<sup>3</sup>. Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III. <sup>4</sup>. Satellite Pro 415CS (Part# PA1215U-S6A) is the Retail equivalent of the Satellite Pro 410CS, but comes with a 1 year warranty and the following additional software: ClarisWorks™ 3.0 version 2, Lotus Organizer™ 2.01, and Quicken SE™ 1.0.