Press Release

Toshiba delivers first Pentium notebook — the T4900CT

Neuss, 7th November 1994

Toshiba today took a significant leap into the future with the introduction of its first Pentium-based notebook. The new Toshiba T4900CT offers unsurpassed system performance, including a large 10.4-inch colour TFT screen, an 810 million byte (772 MB) hard disk, a Plug and Play BIOS, an integrated MousePoint pointing device, faster 64-bit RAM and a new sound system to provide customers with superior multimedia capabilities for their graphics-intensive applications.

"Our strong strategic partnership with Intel allows us to be among the first selected notebook manufacturers to design a Pentium notebook from the ground up that takes full advantage of Pentium performance and features," stated Fumio Yamashita, Toshiba Europa's Vice President of the IPS Business Group. "Our new Toshiba T4900CT notebook not only benefits from the strengths of the new mobile Pentium processor, it also leverages Toshiba's extensive advanced components to give Toshiba customers the best mobile computing solution."

The T4900CT harnesses the power of the brand-new 3.3-volt 75 MHz Pentium from Intel, the first Pentium designed specifically for mobile computers. Using Intel's iCOMP benchmarks the T4900CT's Pentium processor is up to twice as fast as a 75 MHz IntelDX4 processor. It operates with a 64-bit, 50 MHz external bus, offering a significant boost over the 32-bit, 25 MHz bus of a 75 MHz IntelDX4 processor-based system. This blazing speed dramatically enhances performance for power-hungry applications such as the high-frame-rate video playback required for multimedia, CAD/CAM design programs, engineering or software design and computer-based training.

(Continued)

For more information contact Nigel Fusedale, Tel.: + 49 2131 158265

Toshiba Europa (I.E.) GmbH
Hammfelddamm 8, D-41460 Neuss, Tel.: + 49 2131 15801
Fax: + 49 2131 158558, Tlx 85117926 TOSN D

Press Release

Toshiba's new T4900CT

"Toshiba's T4900CT flagship notebook leads the migration to the Pentium processor in mobile computers and demonstrates our commitment to efficient, high-performance processors optimised for mobile computing's present and future needs," stated Steve Nachtsheim, Intel Corporation's vice president of mobile computing. "The performance gap between desktop and mobile systems disappears with the 75 MHz Pentium processor in notebooks."

The problem of advanced heat management for the Pentium processor was solved by a joint effort of the engineering divisions of Toshiba and Intel. The solution in the T4900CT implements Toshiba's manufacturing expertise in the tape automated bonding (TAB) process and Intel's advanced design integrated tape carrier packaging (TCP). TCP reduces the volume of the processor packaging and, in conjunction with a TAB mother-board connection, allows the chip to dissipate heat quickly and cleanly.

To match the 64-bit horsepower of the Pentium processor, Toshiba maximised performance by incorporating the newly-developed high-speed EDO memory for the 8 MB of standard RAM in the T4900CT. This eliminates the need for level two cache often associated with high-speed processors. RAM is expandable up to 40 MB, large enough for the most demanding applications.

Three further innovations on the T4900CT are designed to meet the requirements of a future which will regard multimedia as the norm. Thus the T4900CT features an 810 million byte (772 MB) hard disk drive — space enough for many a multimedia presentation — which has an average access time of just 12 ms. A state-of-the-art 10.4-inch TFT colour screen which can display an extraordinary 65,536 colours on the internal screen instead of the usual 256 ensures that graphics, photos and moving video come up sharp and clear. The screen is supported by a local bus

video system direct from the Pentium processor and graphics accelerator chip.
To complete the T4900CT's multimedia features, there is a Microsoft Sound System sound card built onto the motherboard with an internal speaker and microphone. There are also connections for an external microphone and speakers. This 16-bit sound system is capable of recording and playing back both WAV and MIDI formats. A connection to a CD-ROM drive or video capture board is possible using a PCMCIA SCSI card or the Desk Station IV.

Ergonomics on the T4900CT have been improved with the introduction of the new MousePoint . This miniature joystick, located in the centre of the keyboard, provides easy, precise cursor control at the touch of a finger tip. Because it’s integrated into the keyboard it is more practical for use when travelling and it can be controlled without moving the hands away from the typing position. It’s also as easy for left-handed as right-handed people to use.

For use in office environments, the T4900CT can be connected up to the optional Desk Station to create the ultimate in a desktop replacement. It takes just seconds to connect the T4900CT to the Desk Station, giving a direct connection to full-length ISA cards, printers, external monitors and keyboards, even external hard disk or CD-ROM drives. The T4900CT also benefits from DualBoot software, which ensures that the computer always knows whether it is connected to the Desk Station or working alone.

Furthermore, the T4900CT implements "Plug and Play" BIOS support for easy expandability and configuration of add-in cards. This technology allows the T4900CT to handle the installation and configuration of Plug-and-Play peripherals for the Desk Station IV automatically without user intervention. Even many standard ISA boards will be automatically configurable in their basic configuration. With Toshiba’s "Plug and Play"

BIOS, the T4900CT is also ready for future operating systems such as Microsoft's next generation Windows95 and IBM’s "mobile" OS/2 3.0 .

Two PCMCIA 2.0 slots (1 x Type II and 1 x Type III) complete the range of connectivity options. PCMCIA cards open up a range of communications with fax/modems, as well as to other PCs and corporate networks. There’s also the option of PCMCIA hard disk cards with capacities up to 150 MB as well as 32 MB flash cards for everyday data storage. Using a SCSI PCMCIA card you can also connect an external CD-ROM drive such as Toshiba's light-weight mobile CD400A to futher enhace multimedia use.

"With the new top of the range T4900CT notebook, users can now have one system that not only matches desktop performance when they are out on the road, but when connected up to a Desk Station also provides them with a complete desktop replacement for the office," adds Mr Yamashita. "The Pentium-based T4900CT offers the best investment for the user, the only two-in-one system that will keep pace with new releases of computer-intensive software."

Toshiba Europa (I.E.) GmbH (TEG) is Toshiba Corporation's representative in the office equipment market in Europe. TEG is the sole manufacturer and distributor of Toshiba notebook PCs in Europe and also has divisions selling copiers, fax machines and hard disks/CD-ROM drives. Established in Neuss in Germany, the company employs over 500 staff including the staff of its German operations and the PC manufacturing plant in Regensburg, Bavaria. It is a wholly owned subsidiary of the Toshiba Corporation.

text ends

Press Release

Toshiba's new T4900CT

T4900CT Specifications

Processor
- Intel Pentium,
- 3.3-volt technology
- 75 MHz internal, 50 MHz external clock speed
- 16 KB write-back cache on chip
- Co-processor built-in

Memory
- Standard 8 MB EDO RAM with 64-bit bus (70 ns)
- Expandable to 40 MB*
- Plug 'n' Play BIOS support

Disk drives
- 810 mill. bytes (770 MB) hard disk with 12 ms av. access time
- 3.5" 1.44 MB/720 KB diskette drive with media-type checking

Display
- 640 x 480 dot resolution
- Active-matrix TFT colour
- 10.4" (26.4 cm) diagonal

Graphics Adaptor
- VGA/SVGA compatible
- Dual Display mode
- Up to 65,536 (64k) colours
- Colour palette: 231,424 (226k)
- VESA local bus
- BitBIT graphics accelerator

External Video Modes
- 640 x 480, 65,536 colours
- 800 x 600, 256 colours
- 1024 x 768, 256 colours

Keyboard
- 84 sculptured keys
- Standard layout
- 12 function keys
- 8 cursor keys
- Inlaid numeric keypad
- 10 "hot keys"

Interfaces
- ECP parallel port
- RS-232 serial port
- PS/2 mouse port
- PS/2 keyboard port
- Analogue VGA port
- 150-pin connector for Desk Station IV
- Microphone jack
- Headphones jack

Expansion
- PCMCIA 2.0 type II slot (5mm)
- PCMCIA 2.0 type III slot (10.5 mm)
- Desk Station IV (option)
- Credit card format memory expansion

Special Features
- AutoResume™ Mode with AutoSave
- MaxTime™ Power Management with APM
- QuickRead™ LCD Icons
- Flash BIOS
- MS Windows Sound System (WAV and MIDI) with int. speaker and microphone
- Kensington cable lock provision

Software included
- MS-DOS 6.2 or higher
- Windows for Workgroups 3.11
- PCMCIA Socket and Card Services software support
- MS Sound System 2.0
- SVGA screen drivers
- MousePoint Drivers
- Toshiba MaxTime Power Management
- Toshiba hardware configuration for Windows
- All software pre-installed on hard disk

Hardware included
- MousePoint® device integrated into the keyboard
- MS Sound System chip set on motherboard

Power Supply
- Auto-sensing 100-240 V AC adaptor for world-wide usage

Battery
- Rechargeable and removable NiH_2
- Up to 3 hours battery life
- Recharges in up to 1.5 hrs

Size
- 297 x 210 x 56 mm (11.7" x 8.3" x 2.2")

Weight
- 3.1 kg (6.8 lb.)

Options
- Carrying case
- Desk Station IV
- Extra battery packs
- 4, 8 16 and 32 MB* memory cards
- PCMCIA high-speed fax/modem (where approved)
- CryptCard (PCMCIA data encryption card)
- Car adaptor
- Battery charger

* 32 MB cards are available only from third party suppliers.

Press Release

(Continued)

For more information contact Nigel Fusedale, Tel.: + 49 2131 158265

Toshiba Europa (I.E.) GmbH
Hammfelddamm 8, D-41460 Neuss, Tel.: + 49 2131 15801
Fax: + 49 2131 158558, Tlx 85117926 TOSN D