Press Release

The Toshiba T3400 Series re-defines the subnotebook with better functionality and stylish design.

**Neuss,
12th November,
1993**

Mobile computing has taken a new direction with the introduction of the Toshiba T3400 Series. Described by Toshiba as the product that will bring credibility to the subnotebook market, the T3400 is a genuine lightweight subnotebook, but with all the power and usability of much larger PCs. Although 20% smaller than A4 notebooks and weighing just 1.8 kg, the T3400 offers complete portability matched by full functionality.

"The T3400 Series overcomes the compromises that have so far beset the subnotebook market," says Fumio Yamashita, Toshiba's European Vice President of the IPS Business Group. "It has full 486 power, excellent storage capacity, a full-function keyboard and the best in mobile computer video technology, including a TFT colour version."

Desktop performance

The new subnotebooks are based on the 33 MHz, SL Enhanced Intel486™ SX processor with 8 KB cache built-in. The SL Enhanced version of this CPU has been specially developed for mobile computer manufacturers and environmentally-conscious desktop vendors who value low-power design in order to reduce energy consumption costs for their users. As one of the first subnotebooks with this CPU, the T3400 Series meets the standards set by many companies for purchasing only energy-efficient 486-class processors.

The T3400's standard 4 MB RAM, expandable to a remarkable 20 MB, matches the memory demands of today's and tomorrow's software. The 120 MB hard disk is also designed to account for Windows and advanced applications. Using Microsoft's DoubleSpace utility which comes bundled with MS-DOS 6 on the machine, hard disk capacity can be expanded to more than 200 MB, more than most desktops installed in offices today.

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

Toshiba Europa (I.E.) GmbH
Hammfelddamm 8, 41460 Neuss, Germany
Fax: +49 2131 158558

Press Release

New, no-compromise subnotebook from Toshiba

TFT colour plus high-speed video

The no-compromise design philosophy shows in the screen choice. The T3400CT comes with a 7.8" low-power TFT screen with 256 internal colours at 640 x 480 dot resolution from a palette of 262,144 colours. The large 8.4" Advanced (double-scan) STN on the T3400 features 64 grey scales. Both models include Toshiba Dual Display mode, enabling users to switch video output to show data on an external monitor as well as on the internal screen. Externally T3400 models can also provide full SVGA resolution: 640 x 400, 800 x 600 and 1,024 x 768, all with up to 256 colours.

High-speed video capabilities are another feature of the T3400 Series. With Windows, high resolutions and more colours, the standard 8 MHz PC data bus has proved a bottleneck on all ISA-based PCs. The T3400's VESA local (VL) bus, built onto the motherboard runs at 33 MHz and has a bandwidth of 32 bits rather than the 16 bits of conventional systems. The T3400 Series is also equipped with a graphics accelerator to speed up Windows even further, including BitBIT and Linedraw functions.

Full keyboard, integrated MousePoint

The design of the T3400 Series has been differentiated by moving the 84-key keyboard to the back of the open system. With this Toshiba has given the T3400 Series enhanced usability and a sense of spaciousness rare to subnotebooks. The keyboard has an excellent tactile response and full range of well-laid-out cursor and function keys. The built-in MousePoint is another highlight which improves usability. This pointing device is integrated into the keyboard with the control buttons located in front of the spacebar where they can be easily clicked with the thumb.

Plug-and-play versatility

Full connectivity is available through the T3400's Type II PCMCIA 2.0 slot. This can accommodate network adaptors inside the office or a fax/modem card for on the road. Additional memory and mass storage devices, such as flash cards and SRAM, are also available. Users can

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change between PC Cards while the PC is running using the latest hot-insertion features of the pre-installed Socket and Card Services software. A new feature for subnotebooks is the T3400's port replicator that comes standard with the machine. The port replicator makes office use a simple matter of plug-and-play, offering a wide range of ports: parallel, serial, keyboard, external high resolution monitor, external diskette drive and desktop mouse. Unlike other subnotebooks that are conceived primarily as second computers, the inclusion of the port replicator and PCMCIA 2.0 slot allows the T3400 Series to function as a full desktop PC replacement.

Battery life - up to 6 hrs   By using brand-new lithium-ion battery technology developed by Toshiba and Asahi Chemical in a joint venture, Toshiba has extended the battery life to up to six hours on the T3400 and four-and-a-half hours on the T3400CT. The new battery combined with Toshiba MaxTime™ Power Management with APM, the SL Enhanced i486 SX, extensive use of 3.3-volt components and the new low-power TFT colour screen gives the T3400 one of the most sophisticated energy-management systems available.

Design and weight   In design, the T3400 Series has a modern, rounded case with a grey, textured finish. As on Toshiba's other mobile systems, the casing is made of sturdy ABS plastic, less prone to damage and able to withstand the knocks of travelling. The AC adaptor on the T3400 Series is also the smallest and lightest around at just 240 g; the external diskette drive weighs only 260 g. Both come standard with the machine. Total travel weight, an often overlooked factor, is 2.5 kg on the T3400 (2.6 kg on the T3400CT). Alone, the monochrome T3400 weighs 1.8 kg and the TFT colour T3400CT 2 kg.

"We are very excited about the prospects of the T3400 Series, our first subnotebook line," remarks Fumio Yamashita. "Once again Toshiba has proven that less is more. Not only will its functionality bring much-needed

Press Release

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credibility to the subnotebook market, it's stylish design makes it a computer we're sure our customers will fall in love with."

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Processor
- SL Enhanced Intel486 SX
- 3.3-volt technology,
- 33 MHz clock speed,
- 8 KB cache on chip

Memory
- Standard 4 MB RAM,
- Maximum 20 MB

Disk drives
- 120 MB hard disk, 15 ms ave. access time
- 3.5" 1.44 MB/720 KB ext. diskette drive

Keyboard
- 84 sculptured keys,
- 12 function keys,
- 8 cursor keys,
- Inlaid numeric keys,
- Up to 11 "hot keys",
- Built in MousePoint

Screen
- 8.4" black-and-white advanced STN LCD,
- 64 grey shades,

Graphics Adaptor
- VGA compatible,
- Dual-display mode,
- 640 x 480 dot resolution,
- VESA local bus,
- Graphics accelerator

External Video Modes
- 640 x 480 dots with up to 256 colours,
- 800 x 600 dots with up to 256 colours,
- 1024 x 768 dots with up to 256 colours,
- Total colour palette: 262,144

Interfaces
- Parallel port,
- Serial port,
- External 3.5" floppy disk drive port,
- 72-pin port replicator,
- *Port replicator ports*: PS/2 mouse, PS/2 keyboard, analogue (S)VGA monitor, serial, parallel, external 3.5" diskette drive

Expansion
- PCMCIA 2.0 (Type II),
- Memory expansion,
- Port replicator

Special Features
- MousePoint,
- AutoResume mode with AutoSave,
- MaxTime™ with Advanced Power Management,
- System password,
- Instant lock security,
- Kensington cable lock provision

Battery
- Lithium ion battery,
- Up to 6 hrs battery life,
- Rechargeable and removable,
- Recharges in 3 hrs

Power supply
- Autosensing100-240 V AC adaptor for world-wide usage

Size
- 251 x 201 x 42.5 mm, (9.8" x 7.9" x 1.7")

Weight
- 1.8 kg, (4.1 lb).

Hardware bundle
- External diskette drive,
- Port replicator,
- Video plug

Software bundle
- MS-DOS 6,
- Windows 3.1,
- Socket and Card Services software

Options
- Carrying case,
- 4, 8 & 16 MB memory modules,
- Extra mains adaptors,
- Extra lithium ion battery packs,
- Battery charger,
- Car adaptor,
- Extra port replicators
- European key caps sets

Screen
- 7.8" TFT colour LCD,
- Up to 256 colours,
- Paleet of 262,144,

Battery
- Up to 4.5 hours battery life,

Size

Press Release

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l   251 x 201 x 46 mm,
(9.8" x 7.9" x 1.8"),

Weight
l   2 kg, (4.4 lb)