# Press Release

## Toshiba launches new high-end notebook: T2000SXe makes no compromises

**Neuss , 17 June 1991**

Toshiba Europa GmbH (Neuss, Germany), Europe's leading supplier of laptop and notebook computers, added to its wide range of mobile computing solutions by announcing a new high-end notebook computer today. Toshiba bills the new Toshiba T2000SXe as "the most complete 386SX notebook." The new Toshiba weighs only 3.1 kg (6.8 lb.) and measures 310 x 254 x 46 mm (12.2" x 10" x 1.8"), which makes it as small and as light as the smallest and lightest notebooks in the Toshiba range.

The T2000SXe is Toshiba's high-end notebook. It comes with a 20 MHz 386SX processor and a slot for an optional 387SX numeric data processor. 2 MB of RAM come standard and can be expanded to 10 MB by means of memory cards which can be installed instantly without opening the computer. These cards, which are about the size of a credit card, can be purchased optionally and are available in 1, 2, 4 and 8 MB versions. The user can also choose from a 60 or 40 MB hard disk.

As on all Toshiba notebooks, special attention was given to the ergonomics of the major user interfaces, the keyboard and the screen. VGA graphics come standard which is displayed in 16 grey scales on the paper-white screen or in 256 colours on an external display device. The keyboard has 88 full-size sculptured keys. Eight cursor keys are positioned in the preferred diamond layout. A full set of 12 function keys are located conveniently above the alphanumeric keys. This is the

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same keyboard that has been so successful in distinguishing Toshiba notebooks from the rest of the notebook market in the past.

Standard interfaces include both parallel and serial ports, a connector for 256 colour VGA output, and a port for external keypad. There is a 100-pin connector on the back for an optional expansion unit, the Desk Station II, which provides industry-standard slots and additional interfaces for office use. An internal communications slot can fit either a modem or Toshiba's unique ISDN board.

Toshiba's experience and market dominance are reflected in many other useful details on the T2000SXe. The hard plastic casing is designed with typical Toshiba styling, yet is rugged enough to stand up to the demands of life on the road. The new Toshiba also comes with those many utilities and small details that have made other Toshiba notebooks the mobile computers of choice.

Utilities include Toshiba AutoResume$^{TM}$ that works like an electronic "bookmark" by automatically loading the last file you worked on. Toshiba AutoSave$^{TM}$ is a special safety feature that automatically saves data in battery backed up memory if the batteries happen to run out. Toshiba MaxTime$^{TM}$ Power Management maximises battery power by putting the hard disk, screen and processor to sleep when idle. Toshiba HardRAM is a fast battery-supported storage medium in RAM that can be used with frequently accessed data in order to increase speed and economise on battery power.

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User-friendly features start with the major user interfaces, the keyboard and VGA screen, and extend to other details. 8 status LED's are visible even when the machine is closed so users can check computer status at a glance. A pop-up menu is available at a keystroke for instant control of system functions. Tiny rubber fit on the bottom of the computer ensure that the user is always working on a solid foundation.

In a press interview given at the time of announcement, Christoph Selig, General Manager of Laptop Product Marketing at Toshiba Europa GmbH, said: "There are plenty of notebook computers on the market, all having one or two interesting features; the new Toshiba notebooks are targeted at demanding customers who are looking for a high quality notebook with the best overall combination of features . . . for these customers Toshiba notebooks will be the preferred choice."

According to Dataquest, Toshiba again dominated the European laptop market in 1990 in terms of shipped units with a market share of 31.1% (35.1% in value terms), a result which is larger than the combined shares of its next four competitors (Compaq, Zenith, Sharp and Epson). Dataquest also reports substantial gains made by Toshiba in the overall business PC market, moving from 8th to 6th largest European PC supplier in the time period from 1989 to 1990. The overall business PC market includes both desktops and laptop computers.

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*Product Specifications*

**Processor**
- Intel 386SX$^{TM}$
- 20/10 MHz clock speed
- Reset switch
- AutoResume$^{TM}$ mode
- Socket for optional 387SX$^{TM}$ numeric data processor

**Memory**
- Standard 2 MB RAM
- Expandable to 10 MB (with 1, 2, 4, or 8 MB cards)
- LIM EMS support (3.2 HW, 4.0 SW)
- XMS support with MS-DOS 4.0
- Toshiba HardRAM

**Hard Disk**
- 60 or 40 MB
- 19 ms average access time

**Diskette Drive**
- Built-in 3.5" 720 KB / 1.44MB diskette drive
- Media-type checking

**Display**
- Sidelit Supertwist LCD
- Black and White
- 640 x 480 dot resolution
- 16 grey scales

**Graphics Adapter**
- VGA compatible
- Up to 256 colours on external screen

**Keyboard**
- 88 full-size sculptured keys
- Familiar layout
- 12 function keys
- 8 dedicated cursor keys
- Integrated numeric keypad

**Interfaces**
- 25-pin bi-directional parallel/FDD port (Centronics compatible)
- 9-pin RS-232C serial port
- Built-in modem slot
- 100-pin expansion connector for Desk Station II
- 15-pin analogue VGA monitor port
- Keypad port

**Expansion**
- Internal communications slot
- Desk Station II option

**Operating System**
- MS-DOS 4.01 or MS-DOS 3.3 (option)

**Power Supply**
- Autosensing 100-240 V AC adapter for world-wide usage

**Battery**
- Rechargeable and removable NiCd
- 3 hours battery life
- MaxTime$^{TM}$ Power Management

**Size**
- 310 x 254 x 46 mm (12.2" x 10" x 1.8")

**Weight**
- 3.1 kg (6.8 lb.) with battery

**Options**
- Carrying case
- Internal Hayes-compatible modem (where approved)
- Toshiba ISDN Solution (where approved)
- Desk Station II
- Extra battery packs
- Internal 1, 2, 4 and 8 MB memory expansion cards
- External 5.25" 360 KB diskette drive
- Toshiba ExpressWriter 201 portable printer
- External numeric keypad
- External keyboard adapter
- Key caps for European languages
- Quick battery charger
- Car adapter
- MS-DOS 3.3
- MS OS/2 1.21