The T2000SX - the ultimate in notebook power

Now the notebook computer has come of age: 386 power and a VGA screen with all those special Toshiba features which have proven so handy and popular on other laptops. The T2000SX is the very latest in portable computer technology from the market leader Toshiba. It has a high quality, page white VGA display, with 16 grey scales and an Intel 80386SX processor running at 16 MHz. This new dynamic notebook has standard memory of 1 MB RAM, expandable up to 9 MB maximum and comes with either a 20 or 40 MB hard disk (less than 25 msec access). The diskette drive takes both 720 KB and 1.44 MB diskettes.

The T2000SX also features the new nickel hydrogen type battery which ensures that it can be completely free of mains power for at least three hours, depending on hard disk usage. This type of battery allows a very fast recharge time of just 1 hours when the T2000SX is not in use. It comes with MS-DOS 4.01 and a full set of standard interfaces. Specifications such as these, fitted into the same format as the T1000SE, means that the T2000SX is the flagship of the Toshiba notebook range. The T2000SX has stayed true to the format of the notebook, it measures just 31 x 25.4 x 4.6 cm and weighs just 3.3 kg, but Toshiba has packed a combination of power and functionality into these small dimensions which has never before been available on the market.

Toshiba anticipates that this notebook computer will appeal to many managers and other leading sales, scientific and technical professionals. Another potential group of users for the T2000SX will be companies who have standardised their hard- and software requirements on 386 based systems. Toshiba's experience in the market indicates a trend in this direction, as larger companies decide to equip offices with systems which are at the forefront of computer technology. Using the T2000SX will allow such companies to reap the full advantages in price and compatibility of standardising their software and will ensure that the laptop users are fully integrated into the standard office system.
One of the major highlights of the T2000SX is its screen. Its unique combination of sidelit fluorescent lighting with a page white display sets this computer apart in a class of its own. Toshiba has long maintained that the display is one of the most important aspects of laptop design, something all laptop users quickly learn if they have poor quality screens, and with this screen Toshiba has made a strong point in favour of this argument. VGA is now becoming an expected quality standard on laptops and this screen does not disappoint. The 16 grey scales with Toshiba's usual intelligent grey scale mapping means that the grey scales chosen to represent the colours are arranged in a manner which ensures high contrast between contiguous shades. This is a great help to the eye when working for prolonged periods.

The storage capacities available in the T2000SX show Toshiba's usual generosity of options. The hard disk will be available in two versions, 20 or 40 MB. For notebook users this will undoubtedly be sufficient for all their software and data needs. The diskette drive takes both 1.44 MB and 720 KB, 3" versions and an external optional 5"ÿdiskette drive is available which plugs into the parallel interface.

In terms of memory the T2000SX comes with a standard 1 MB which can easily be expanded with credit card sized memory cards. Users can simply slot these into the space available on the left under the keyboard. The cards are available in 1, 2 4 and 8 MB versions, which allow users to tailor the capacity to their software needs. The extra memory can be configured in three different ways: as expanded memory (LIM EMS), as extended memory (XMS), or as Toshiba HardRAM. Used as Toshiba HardRAM, the extra memory effectively becomes a super-fast electronic data storage disk. Because HardRAM uses no moving parts it is both almost instantaneously fast and saves considerable battery power. This HardRAM can be configured as a "D" disk. Toshiba's speciality is that when the T2000SX is switched off the data are not immediately lost. Toshiba

HardRAM is battery backed which ensures that the data remains available, perhaps for reworking or for transfer by modem even when the laptop is switched off. Data must be transferred to another storage medium when no more power is available to back up the HardRAM.

In terms of user friendliness and comfort the T2000SX exhibits a range of features which have now become standard on Toshiba models but which are not available elsewhere on the market. A good starting point is the keyboard. With the screen this is the most important human interface on any computer. Although many notebooks suffer from cramped or reorganised keyboards, Toshiba has avoided this on the T2000SX. In fact Toshiba has gone further and kitted the T2000SX out with the same keyboard as the popular but larger T3100SX. This means that it has a full 88 keys, including 12 function keys, eight cursor keys (i.e.: Home/End and PgUp/PgDn all exist individually and are not doubled with the arrow cursors) and an integrated numeric keypad. The full complement of keys also means that there is sufficient space for all the extra accented letters needed on non-English keyboards. A special Toshiba Fn key is included which controls the use of the numeric keypad as well as allowing simple key stroke control of such functions as processor speed and the MaxTime Power ManagementTM and AutoResumeTM modes.

Toshiba's AutoResumeTM mode is another of the extraordinarily useful features on the T2000SX. The best description of this is that it is a super accurate electronic bookmark. When the T2000SX is set in Resume mode and then switched off, AutoResume^{TM} remembers the exact place you stopped working - whether you saved the data or not - right down to the exact cell in a spreadsheet, or the cursor position in a data bank or word processing program. When the computer is switched on again the user is immediately returned to exactly the same place. No DOS rebooting, no program loading and no data loading. However the real benefits AutoResumeTM only become apparent with regular use. It saves time and it helps save battery life. It also very usefully saves data if you forget when you switch off or (the AutoSave function) if the battery suddenly runs out.

AutoResumeTM is closely linked to another very sensible feature on Toshiba's laptops called MaxTime Power Management^{TM}. This is a power saving and monitoring system which can help increase battery life much longer than the advertised three hours, depending on usage. Under this system the screen, the hard disk, the modem and the processor are monitored for use. When they are left idle for a specified number of minutes the system closes them down (or, for the processor, reduces its speed) in order to save power. Thus the modem power connection is disabled, the hard disk heads are parked and the disk switched off and the screen lighting is switched off. All of these become immediately available again with one key stroke. The control times for each of these items can be individually set by the user by calling up a pop-up menu from the keyboard with the Toshiba Fn key and Escape.

In terms of connectivity the T2000SX is also well equipped. In common with other Toshiba notebooks it has a one parallel, one serial, to cover such options as a mouse or printer, and a special 100-pin expansion port fitted into the back of the casing. This expansion connector is a special port designed for use with Toshiba's new Desk Station II. This is a sleekly designed desktop expansion unit with space for two full size industry standard expansion boards to allow special functions such as a CD-ROM, high-resolution graphics card or scanner to be connected to and used with the T2000SX. Alternatively, the Desk Station option allows this notebook to be connected to a network.

Another connectivity option for the T2000SX is a modem. This fits into a slot in the base of the laptop with a port on the right hand side. The T2000SX uses a Hayes compatible special Toshiba dedicated modem, where these are approved. The T2000SX also has an external colour screen port which supports VGA 16 colour graphics. This is situated on the right side allowing users to attach a screen even when the T2000SX is attached to a Desk Station. An external numerical

keypad can also be plugged into this notebook. Finally the T2000SX can be fitted with an 80387SX numerical co-processor for those uses which require a high number crunching capacity.

The combination of connectivity and expansion options make the T2000SX a very attractive model for users who need both power and portability, and who want one computer for both office and mobile use. Fitting this level of functionality and all the standard features now expected of a notebook, plus those special Toshiba features into the format of the original T1000SE, shows what masters of laptop design Toshiba really are. They have managed to do this without sacrificing either ease of use or slim elegant style. The Toshiba T2000SX is therefore not only a notebook which has the power and functionality today's demanding professional users need, but it has also retained those features necessary to make such mobile computing a pleasure.

@BREAKAFTER =
@TITLE + LINES = Appendix: Specifications

Processor
Intel 80386SX
16/8 MHz clock speed (switchable by keyboard operation)
Reset switch
Auto Resume
Socket for optional 80387SX NDP

Memory
Standard 1 MB RAM
Expandable up to 9 MB (with 1MB, 2 MB, 4 MB or 8 MB card)
LIM EMS supported (3.2 HW, 4.0 SW)
HardRAM supported
XMS Supported

Storage
20MB/40 MB
Built-in 3.5" 1.44 MB/720 KB, media type checking

Display
High Resolution FL sidelit black and white LC-Display
640 x 480 dot resolution
16 level grey scale
Screen size: 173 x 130 mm

Graphics Adapter
High Resolution Graphics Subsystem (HRGS) display controller supporting VGA (640 x 480) function with Toshiba Graphics Mode (640 x 400 pixel)

Interfaces
25-pin bi-directional (Centronics compatible) parallel / external FDD interface port
9-pin RS-232C serial interface
Built-in modem slot
100-pin expansion connector for Desk Station
15 pin analogue VGA type CRT interface connector
Numerical key pad port

Keyboard
88-key keyboard

Clock/Calendar
Battery backed-up

Operating System
MS-DOS 4.01 or MS-DOS 3.3 (Option)

Size
310 x 254 x 46 mm (12.4" x 10.1" x 1.8") (W x D x H)

Weight
3.3 kg (7.26 lb.)

Power Supply
Autosensing 100-240 VAC for world-wide usage

Battery
NiH2 battery pack (rechargeable)
3 hrs battery life
1.5 hrs fast recharge (when laptop not in use)

LED's
DC In indicator
Power/Speed indicator
Internal HDD in use
Internal FDD in use
Battery indicator
Caps Lock
Num Lock
Overlay
CRT indicator

Options
Memory IC-Cards with 1 MB, 2 MB, 4 MB or 8 MB respectively
Desk Station II
Built-in modem (where approved), T1200-type
External Diskette Drive 5 1/4" (for 360 KB disks)
@BREAKAFTER =
@TITLE + LINES = The T3200SXC - The Portable Colour Desktop Replacement

With the announcement today of a 386 based laptop with a TFT colour screen, Toshiba has dramatically underlined its claim to be the technological leader in the laptop market. The mains powered T3200SXC is the first of Toshiba's laptops to be fitted out with a TFT LCD screen, the screen technology of the future. It is a faster version of the popular T3200SX released just over a year ago. The T3200SXC runs at 20 MHz on an Intel 80386SX processor and has a 120 MB hard disk with a 19 msec access time. Memory is one MB RAM standard, expandable up to 13MB. These technical specifications clearly set this model apart as a high powered laptop of quality, but where this models beats all competition hands down is in its TFT colour screen.

TFT (Thin Film Transistor) displays are only just coming onto market. They utilise the most advanced technology for fast reacting colour LCD screens. TFT is a sophisticated technology which requires transistors to control directly the four colours of each individual pixel. This demands an extraordinarily high concentration of chips on the screen and demands production facilities of the most advanced and delicate kind. Toshiba is one of only three manufacturers in the

world with the technology and facilities to be able to manufacture such screens. Using TFT technology it is possible to produce screens which are almost as slim as traditional LCD versions but which have incredibly fast reaction times, comparable to traditional full desktop CRT displays.

The display on the T3200SXC is VGA standard, with 256 simultaneous colours from 185,193 possible. The screen is equipped with a high speed video controller to control the individual pixels, so ensuring that the display is able at all times to process the colour information for the picture to match the speed of information which the 20 MHz processor provides. In contrast to traditional CRT's or STN LCD technology, the screen is 100% flicker free with an array of bright clear colours in an even geometric distribution. The contrast ratio out performs the best in monochrome LCD by a high margin. TFT LCD also has other advantages in health terms: unlike CRT it emits no radiation and has no magnetic field. With advantages like this it is easy to see why TFT is the screen technology of the future.

The crisp colours and high contrast of the screen on the T3200SXC makes it the ideal portable replacement for every desktop machine. Users of the T3200SXC need make no sacrifice in computing power or screen quality. If managers, or other professional or technical staff must have full portability and at the same time full colour options this computer is the complete answer. Its weight of just 7.9 kg means that it is fully mobile and with the dimensions 370 x 110 x 395 mm it does not take up a large amount of desk or car space. For users who need to travel and make presentations, the true to life colours will make every demonstration a success. An additional advantage is the T3200SXC's dual display facility: as well as showing everything on the TFT screen, an external VGA CRT screen or VGA video beamer can be connected to the RGB port.

Although the display is undoubtedly the most important feature of the T3200SXC, other features also make this Toshiba model a clear winner. The T3200SXC has all the necessary industry standard expansion slots needed to confirm it as a full PC, equal to any desktop on the market. It is therefore an ideal machine for connectivity or specialised scientific or engineering functions which require customised boards to be fitted. With the 120 MB hard disk, this model also has no limitations regarding operating systems. The screen makes the T3200SXC ideal for all graphical interfaces and the high capacity of the T3200SXC means that it can be used with UNIX, OS/2 or DOS with or without Windows 3.0. In fact with 120 MB it is even possible to have a combination of these systems.

Next to a high quality screen, Toshiba maintains that the second most important human interface on a computer is the keyboard. Here the T32000SXC has a quality layout to match its screen. There are 92 full sized keys in the standard layout, including a full-sized numeric keypad and 12 function keys. There is no need to relearn old typing habits on this keyboard and the grey shading of different sections of the keyboard will be a help to both practised and less experienced typists. Additionally it has good key travel, making it all in all a very comfortable keyboard to work on.

The T3200SXC is one of the very first laptops with a TFT screen and it is the lightest and most powerful so far. Both in the market as a whole and in the Toshiba range of portables it is clearly therefore in a class of its own. There are no other products available which can match the T3200SXC with its combination of portability and screen quality, and this must undoubtedly mean that it is now the leading model in the Toshiba family of laptops.

Finally the advent of TFT technology in laptop computers will enable them to compete as more than 100% rivals to traditional desktops. No more will it be possible to say that taking a portable computer means accepting compromises: TFT laptops have everything a desktop has PLUS portability. Toshiba has long maintained that the PC of the future is a laptop. The T3200SXC is the clearest indication yet that this prediction is going to come true. As the undisputed market leader in laptop computers it is therefore of notable significance that Toshiba has announced this product now.

@BREAKAFTER =

@TITLE + LINES = Appendix: Specifications

Processor
Intel 80386SXTM microprocessor
Adjustable 20/8 MHz operating speed
Optional 387SX maths coprocessor

Memory
1 MB RAM standard
13 MB Max RAM
LIM-EMS 4.0 supported
XMS 2.0 supported

Storage
Internal 3.5" 1.44 MB/720 KB diskette drive
3.5" 120 MB hard disk drive (19 ms access time)

Display
TFT Colour LCD (VGA)
640 x 480 pixels
Up to 256 Colours of 185,193 possible
Simultaneous plasma/external CRT mode
Display size: 233 x 176 mm

Graphics Adapter
VGA compatible
262,144 colours total, maximum 256 at a time on ext. CRT

Keyboard
Sculptured 92 key
12 function keys
Full-size numeric keypad

Interfaces
Centronics parallel port
Two RS-232C serial ports
VGA colour monitor port
External diskette drive
External keyboard

Expansion Slots
Full size slot 16/8 Bit
1 half size slot 8 Bit or Toshiba 16 Bit
Dedicated modem slot

Operating System
MS-DOS 4.01

Power Supply
Autosensing 100-240 VAC for world-wide usage

Dimensions
370 x 110 x 395 mm (14.6" x 4.3" x 15.6")

Weight
7.9 Kg (17.4 lb.)

Options
Memory expansions 2 or 4 MB
Internal Hayes-compatible modems (where approved)
Carrying Bag

@BREAKAFTER =
@TITLE + LINES = A take anywhere, use anytime notebook

The T1000LE - complete portability from Toshiba

Neuss, Germany

8th November 1990

A year after Toshiba released the world's first fully compatible notebook computer, the company has now announced a model which could become the new benchmark in 80C86 notebook computers. The T1000LE neatly combines the two qualities most needed in a notebook: full functionality and the highest portability. Full functionality comes with a floppy disk drive, a 20MB hard disk drive, up to 8 MB of RAM, a high quality screen and a full keyboard missing none of the extra keys needed for fast, easy data entry. In terms of mobility its extended battery life of up to five hours on two batteries ensures the highest portability and brings the T1000LE into a class of its own where notebooks are concerned. Amazingly, Toshiba has packed all this into the standard notebook format with a weight of just 3.0 kg.

This combination of low weight and full functionality will make the T1000LE the ideal take anywhere, use anytime standard notebook. Despite prophecies of obsolescence for 80C86 PCs, Toshiba clearly reckons that there is a strong market for this type of notebook computer. According to user research, 80C86 based notebooks are considered ideal as light-weight information platforms. They are enhanced by proven CMOS technology and there is a comprehensive supply of software for these machines at very reasonable prices. The T1000LE is very persuasive representative of this class of notebook and seems certain to take off as the industry standard 80C86 notebook computer.

As regards the shape of the T1000LE, it is the same as the previous T1000SE and T1000XE models from Toshiba, but it comes with some quality refinements which clearly make it a major step forward in notebook computing. As usual from Toshiba the screen is one of the major plus points for this machine. Toshiba believes that the screen is the most important of the human interfaces on a computer and has therefore equipped the T1000LE with the latest sidelit technology to bring high contrast and clear legibility in all lighting conditions. Like its namesakes, the T1000SE and T1000XE, the T1000LE also features Toshiba mode graphics, providing the higher resolution 640 x 400 pixels. With double the number of pixels compared to CGA mode, circles appear really round on Toshiba notebooks. A further aid to visibility is the reversible shading. Over a simple keyboard instruction this can be switched between blue on white or white on blue, an option which also aids legibility in certain lighting conditions.

In terms of memory, Toshiba's new model is also well above the basics. It is equipped with one megabyte standard RAM which can be simply upgraded to a maximum 9 MB with cards the customer can easily install. Few battery powered laptops can match this level of memory and Toshiba has cleverly also made the memory configurable as HardRAM, a battery backed very fast electronic storage medium. Toshiba HardRAM saves data on microchips and uses no moving parts, unlike hard or floppy disks. Saving data on HardRAM whilst a file is being worked on is therefore very helpful in saving battery power. Alternatively the extra memory can be used as expanded memory. These advances are also proof of the logic of Toshiba's substantial investments in chip technology. The memory expansion cards utilise home-made Toshiba 4 Mbit chips.

The cleverest innovation on the T1000LE is probably the second battery option. Long hours away from electricity sources are, for many people, what notebook computing is about, and Toshiba has recognised this need with a second battery which can be fitted into the modem slot on the T1000LE. This gives a total battery life of around five hours depending on program and hard disk usage. Better still this is not an either/or option. The second battery does not have to be permanently installed, so long distance communications are not restricted in any way. The only restriction is that the second battery and modem cannot be used simultaneously. To change over, just remove the second battery, reinsert the modem and reboot for instant connectivity. Where there is a modem socket there is almost always a mains source of power and so battery supply is not necessary.

To enhance battery life even further (Toshiba's advertised battery life is always without using power saving systems) Toshiba have added a range of special features which show a dedication to helping users get the most out of this product. These are grouped under the name MaxTime Power ManagementTM. On the T1000LE this switches the display off and closes the hard disk down after a specified number of minutes of non-use in order to save power. These time intervals can be set by the user to match his or her working rhythm.

MaxTime also monitors battery life which can be graphically viewed at any time using a small pop up window direct from the keyboard. Another way of saving power on the new T1000LE is to use the Toshiba HardRAM described above whilst working on data. With no mechanical parts this is not just faster but conserves a lot of battery life otherwise exhausted by frequent access to the hard disk.

Even if power does run out though, Toshiba's AutoResumeTM mode ensures that no data is ever lost. AutoResumeTM is made up of two separate but very useful functions. The AutoSave function automatically saves all data being worked on when battery power runs out. It then switches the Toshiba T1000LE into Resume mode ready to return to the exact place of work when power is restored.

The Resume function of AutoresumeTM mode can additionally be activated at any time by the user by using a small pop-up menu accessible at any time. It has now become a standard feature on Toshiba's battery powered machines, but this doesn't detract from its elegant simplicity and high degree of usefulness. ResumeTM mode can be likened to a super accurate electronic bookmark which allows the user to switch off anywhere in a program and later to switch back on to return immediately to exactly the same place of work. No booting is needed, no program loading and no data file loading.

@BREAKAFTER =
@TITLE + LINES = Product Specifications/Options

Processor
Intel 80C86

9.54/4.77 MHz clock speed (switchable by keyboard operation)
Reset switch
Auto Resume

Memory
Standard 1 MB RAM
Expandable to 9 MB (with 1MB, 2 MB, 4 MB or 8 MB card)
LIM EMS 4.0 supported

Hard Disk
20 MB (25 ms access time)

Diskette Drive
Built-in 3.5" 1.44 MB/720 KB, media type checking

Display
High Resolution FL sidelit LC-Display
640 x 400 dot resolution

Graphics Adapter
CGA compatible
Toshiba Graphics Mode (640 x 400 pixel) supported

Interfaces
25-pin bi-directional (Centronics compatible) parallel /
external FDD interface port
9-pin RS-232C serial interface
Built-in modem slot
100-pin expansion connector for Desk Station

Keyboard
84-key keyboard

Clock/Calendar
Battery backed-up

Operating System
MS-DOS 3.3 or MS-DOS 4.01 option

Size
310 x 254 x 44 mm (12.5" x 10" x 1.8") (W x D x H)

Weight
3.0 kg (6.6 lb.)

Power Supply
Autosensing 100-240 VAC for world-wide usage

Battery
NiCd battery pack (rechargeable)
Additional battery pack optional in the built-in modem slot
LED's

Caps Lock
Overlay
Num Lock
Power/Speed
DC in indicator
Disk in use C:
Disk in use A:
Battery in use L
Battery in use R

Options
Memory Kit containing 1 MB, 2 MB, 4 MB or 8 MB respectively
2 MB Memory
Desk Station III
Built-in modem (where approved), T1200-type
Battery pack for built-in modem slot
External Diskette Drive 5 1/4" supporting 360 KB disks
Battery Recharger
Universal AC-Adapter
Car Adapter
@BREAKAFTER =
@TITLE + LINES = The T5200C - Laptop LCD Colour

At an affordable price

Neuss, Germany

8th November 1990

Laptop colour from Toshiba is now available at a reasonable price. Toshiba is launching the popular and powerful T5200 with a colour LCD screen as the T5200C. This model, which has received critical acclaim when it has been previewed several times at trade fairs, runs at 20MHz on an i386 processor. It has a 200 MB hard disk (16 ms access time) and a VGA screen with 16 simultaneous colours. The colour display is a SuperTwist Nematic (STN) screen.

Colour has been seen as the last hurdle for many in the laptop computer market and there is now a high level of market interest. As the market leader in Europe with over 35% of all laptop sales, Toshiba's entry into the colour sector of the market is of major significance. By fitting the T5200, often called the "King Of Laptops", with colour, Toshiba is setting a quality trend which other manufacturers will have to follow if they are to stay in the race in the laptop market.

This announcement is also a timely reminder amongst the excitement of the boom in notebook computers, that there is another side to portable computers in which Toshiba is far ahead of all competitors. Mains powered portables offer users some benefits of power and capacity which are not currently possible with the state of computer technology on lighter battery powered models. For users who need to use the full expansion capabilities both at home as well as in the office the mains powered machines mean that they can do this with the advantages of portability. By adding colour to the T5200 Toshiba has ensured that such benefits together with the higher hard disk capacity and the extra speed of the 20 MHz processor will be available for the T5200C users as well.

So far the market in colour screens on laptop computers has been relatively small but it is clearly a growth area. Nowadays virtually all programs offer up to 16 colours and there is increasing

appreciation of the way in which presentational work on computers comes alive with colour. Most users of laptops can therefore benefit from the added option of colour.

Toshiba's STN colour screens are considered by many industry observers to be the best of their type on the market. They have a high colour contrast and are remarkably free of box shading. By choosing to bring this type of screen to market, as well as the more technically advanced TFT on the new T3200SXC, Toshiba is giving customers a wider choice of colour appropriate to their price and performance needs. Having two colour screens in the Toshiba family of laptops, is further proof of Toshiba's commitment to portable computing and backing for Toshiba's belief that the screen is one of the most important features to computer users. The move to colour screens is also a major step towards Toshiba's vision of the PC of the future - a laptop computer which can fully replace any desktop as a superior productivity tool.

@BREAKAFTER =
@TITLE + LINES = Appendix: Specifications

Processor
Intel 80386 / 20 MHz
80387 coprocessor socket
Intel 82385 cache controller

Memory
2 MB standard RAM
14 MB maximum RAM
Shadow RAM
LIM/EMS 4.0 support
XMS 3.2 support with DOS 4.0
32 KB cache memory (35 ns)

Disk Storage
FDD: 3.5" 720 KB/1.44 MB
HDD: 100 or 200 MB (19 ms)

Display
Colour STN LCD display
640 x 480 x 3 colours (RGB) pixels
16 colours
Detachable display
Dual display mode

Graphics Controller
VGA compatible (640x480)

Additional Display Specifications
Type: Supertwist Nematic liquid crystal display.
Viewing area: 211 x 158 mm.
Pixel size: 0.09 x 0.31 mm.
Contrast ratio: 12:1
Angle of view: -10 to +35 degrees horizontally.

Keyboard
Full-sized 92-key keyboard
12 function keys
Full-sized numeric keypad

Dedicated cursor keys
Status LED lights

Interfaces
Two serial ports
Combined parallel /FDD port
RGB (analogue) colour monitor port

Expansion
Full-size ISA 16 or 8-bit slot
Half-size ISA 8-bit slot OR Toshiba 16-bit slot
Operating System
MS-DOS 4.01
MS OS/2 1.1 (Option)

Size
370x395x99 mm (14.6"x15.6"x3.9")

Weight
8.7 kg (19lb)

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