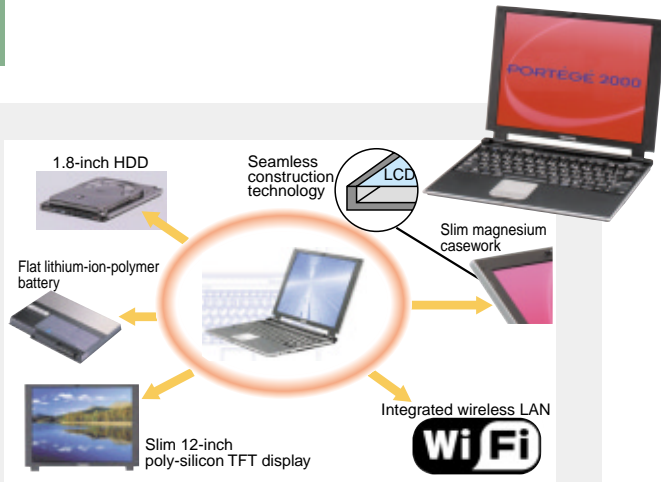


Mobile PCs, personal digital assistants (PDAs) and cellular phones are now all able to handle music and motion pictures and are the core mobile terminals for use mainly on the Internet. Bluetooth™ technology is a short range wireless communication method allowing a large number of personal devices to connect in a wireless manner, which is contributing to the promotion of a mobile network society. The Internet, as an information base accessible to anybody anywhere, has created new business opportunities and life style, and Toshiba is proposing new usage methods in content services such as motion picture functionality, in this network environment, which is expanding from mobile to broadband. In the field of home appliances and office equipment on the other hand, Toshiba is aiming at the creation of energy saving products friendly to the global environment through the incorporation of IT technology.

## PORTÉGÉ™ 2000 Notebook PC



Thin profile and light weight realized by new components and technologies

The design concept behind the PORTÉGÉ™ 2000 was the achievement of the world's thinnest (14.9 mm), lightest (1.19 kg) ultra portable notebook PC (Personal Computer) without any feature compromise. Realizing this goal required integration of many new technologies.

A magnesium shell and new seamless construction technology provide strength, rigidity and a slim profile. The industry's first 1.8-inch 20 Gbyte HDD is 49 percent smaller than any other HDD currently on the market.

The Intel® Pentium® III Processor-M 750 MHz ultra-low voltage and enhanced SpeedStep™ technology provide longer battery life and faster performance.

The new, slim 12-inch poly-silicon TFT (Thin Film Transistor) display allows easy viewing and delivers higher quality images using 40 percent fewer components than an amorphous silicon TFT display. The new flat lithium-ion-polymer battery technology is a major factor in the lightweight ultra slim profile. A second high-capacity battery pack bundled with the notebook increases battery life to up to 9.3 hours.

Moreover, PORTÉGÉ™ 2000 supports communication anytime, anywhere with fully integrated Wi-Fi (IEEE 802.11b), internal fast infrared (FIR), a 10/100 Ethernet port, and an international V.90 modem.

*"Intel", "Pentium", "SpeedStep" are trademarks or registered trademarks of Intel Corporation or its subsidiaries.*

## Satellite™ 5100 Notebook PC



Satellite™ 5100 notebook PC

"The Audio Video Digital Convergence" is the product concept for the Satellite™ 5100.

The technically-advanced Satellite™ 5100 offers rich graphics performance, excellent stereo sound with a built-in subwoofer and a large high resolution display packaged in a sleek, Formula 1 type chassis leading the new trend in design.

With a Mobile Intel® Pentium® 4 processor-M 1.60/1.70 GHz, the Satellite™ 5100 raises the bar for standards in notebook innovation and performance to a new level. Integrated NVIDIA® GeForce4™ 440 Go graphics processor with 32 Mbyte DDR VRAM (Double Data Rate Video Random Access Memory) provides the world's fastest 3D imaging and superior gaming experience. Harman/kardon's stereo speaker and built-in sub woofer achieves pure middle to high range sound reproduction with a powerful bass sound.

And a huge 15-inch high brightness high-resolution (1,600 × 1,200) display with wider viewing angles provides enhanced DVD movie playback. The DVD/CD-RW multi drive is suitable for data backup as well as making your own music library. A unique TouchPad interface called "cPad" adds a convenient method for launching applications such as "Calculator", "Numeric Keypad".

Moreover, the Satellite™ 5100 is equipped with both SD (Secure Digital) and SmartMedia™ memory card slots for easy connection with digital cameras and supports communication anytime, anywhere with Wi-Fi (IEEE 802.11b wireless LAN) and Bluetooth™, FIR, a 10/100 Ethernet port, and an international V.90 modem.

The superb functionality of the Satellite™ 5100 enables the user to engage in a new digital life style, from enjoying games, music or movies, to creating their own multimedia content.

*"NVIDIA" and "GeForce4" are registered trademarks or trademarks of NVIDIA Corporation in the United States and/or other countries.*

*"SmartMedia" is a trademark of Toshiba Corporation.*

## P2500 Series BS Digital Plasma Television

Hi-brightness, hi-contrast and low power consumption that lead the industry are all featured in this new BS (Broadcast Satellite) digital plasma television set. This television employs a newly developed plasma display panel and it is fully compatible with all BS digital broadcast services.

Hi-brightness (400 cd per square meter as peak brightness for 42P2500) was achieved due to the improvement in the emission efficiency of the plasma module. In addition, hi-contrast (1500:1 for 42P2500 in a dark location) has been achieved due to the employment of BLACK STRIPE™ system which gives a sharper black.

In addition to the three base color filters, using a red color complement filter, the emission of undesirable color has been cut out, which delivers high purity color picture definition.

Low power consumption has been achieved, at 260 W for the 42P2500 plasma monitor part, 445 W for the 50P2500 plasma monitor part and 30 W for the tuner part.

One industry-first feature is the inclusion of a SmartMedia™ slot and SD card slot, and it is possible to view high quality pictures from digital cameras.

This plasma television set is equipped with i.LINK™, D4 terminal and PC connecting terminals, and has full AV digital network capability.

*"i.LINK" is a trademark.*



42P2500 BS digital plasma television



50P2500 BS digital plasma television

## MAGNIA™ Z300 Compact and High Performance IA Server

Toshiba has developed the world's smallest high performance 2way IA (Intel® Architecture) server MAGNIA™ Z300.

The Z300 is able to house two high performance 1 GHz CPUs within a chassis of less than half the size thanks to Toshiba's latest packaging technology.

It has three DIMM (Dual In-line Memory Module) slots (3 Gbyte max.), 2-channel 100BASE-T Ethernet, Hot-pluggable IDE RAID (Integrated Device Electronics Redundant Array of Inexpensive Disks) and onboard server management system as the default configuration.

Furthermore, the combining of External Disk Chassis and IO Chassis enables a broad range of applications from SOHO (Small Office Home Office) to large accounting systems.

It also supports a rack mount system that is suitable for data center systems, which require very high density mounted systems.

The Z300 includes software, wireless LAN (IEEE 802.11b) access point, so this unit can be used to form the infrastructure to fully support a mobile computing environment.



MAGNIA™ Z300 compact and high-performance IA server

## Pocket PC



GENIO e550 / e550X Pocket PC

### GENIO e Series Pocket PC

The GENIO e550, which was released on the market in August 2001, is an extremely well designed PDA (Personal Digital Assistant) for portability, usability, extendibility and compatibility with the PC. This device carries Microsoft® Windows® for Pocket PC OS (Operating System) with an Intel® StrongARM® processor 206 MHz inside. The GENIO e550 houses both an SD slot and CF (Compact Flash) type II slot in the world's most compact body (17.5 mm thick, about 180 g weight) by integrating advanced technology such as high-density mounting technology and an advanced lithium ion battery.

The GENIO e550X, which features further enhanced functionality with increased memory and new OS on board was also released on the market December 2001.

### CDMA Integrated Pocket PC

Toshiba began providing the CDMA (Code Division Multiple Access) integrated PDA for carriers in the United States from March 2002.

This PDA is powered by Microsoft® Windows® Pocket PC 2002 OS, running on an Intel® StrongARM® 206 MHz processor. Dual band (800 MHz Cellular and 1,900 MHz PCS band ) wireless modem is housed within the slim body measuring 19.5 mm thick. Phone and data communication functions are performed by the bundled phone control application. Not only are phone functions like voice mail, SMS (Short Message Service), Speed dial etc. offered, but also high speed data communication is enabled by providing CDMA2000™ 1X™ wireless voice and data communication capabilities. Advanced wireless technologies and operability are beautifully combined in a single device.



CDMA Integrated Pocket PC (Thera™ is offered exclusively through Audiovox Communications Corp.)

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*"StrongARM" is a registered trademark of ARM Ltd.*

*"CDMA2000" is a trademark of the Telecommunications Industry Association (TIA).*

*"CDMA2000 1X" is a trademark of the CDMA Development Group.*

## 9155-GPX Triple-Mode CDMA/AMPS Handheld Portable Cellular Phone



9155-GPX triple-mode CDMA/AMPS handheld portable cellular phone

Toshiba has developed a new 9155-GPX triple-mode cellular phone for the U.S. This cellular phone provides 800 MHz CDMA/AMPS (Advanced Mobile Phone Service) and 1.9 GHz CDMA service. For emergency call initiation (E911 call initiation), this cellular phone also complies with the location measurement system requirements of the FCC (Federal Communications Commission) in the U.S.

Toshiba has achieved a highly accurate location measurement system, using signals from a GPS (Global Positioning System) satellite and the CDMA base station. Furthermore, a CDMA2000™ 1X™ compliant high speed packet data (HSPD) communication system and a two-way speaker (which has won a high reputation since its inclusion in the former model) are both incorporated in the 9155-GPX, while maintaining the size and weight of this new product at the same level as that of its predecessor.

## Map Engine in Route Guidance Services for Pedestrians

The number of Web services on the Internet and via cellular phones providing information on shops and tourist facilities is increasing rapidly.

Toshiba has developed a map engine that generates map information for these services offering greater convenience for the end user.

In order for the maps generated to be sufficiently useful for pedestrians using cellular phones without a large screen, the map engine generates not only a rough map, but also a map that zooms in on the route from the starting point to the destination point according to the ongoing direction in a similar manner to that of car navigation systems, as well as route guidance in text form.

This map engine has been utilized for Toshiba's information service site on train transfers, "Ekimae Tanken Club", and the engine is available for other services in any category of business as ASP (Application Service Provider).

This technology now supports any language and any geographical area by supplementing the map data, so it will also meet the needs of users when traveling abroad and in the overseas market.



Route guidance service combined with train transfer service



Route guidance map images flipped through in order of direction

## RD-X1 HDD & DVD Video Recorder



RD-X1 video recorder with HDD & DVD

The HDD & DVD video recorder RD-X1 has now been released; video recording device equipped with an 80 Gbyte hard disk drive (HDD) and an optical disk drive (ODD) for DVD-RAM (rewritable DVD) and DVD-R (write-once read-many DVD). The double drive system Toshiba has innovated for incorporation in the RD-X1, provides various playback and recording functions that utilize the advantages of each media. The optical disk drive supports DVD-R, and enables creating a DVD-R favorite scene collection, which is compatible with most conventional DVD players. The RD-X1's large capacity HDD offers extensive recording time of up to 75 hours, and with the advanced editing functions, offers a new method of video collection, e.g. dubbing only the desired content from the HDD to a DVD-RAM/R.

The editing functionality and operability of the RD-X1 expands on the concept of former models, i.e. quick search and easy editing, by means of a remote control operation-based GUI (Graphical User Interface) with items such as Content Menu, Rec Menu, Edit Menu.

In addition, the RD-X1 features rate conversion dubbing, which enables adjusting the bit rate of recorded content to save disc space, and challenges the competition with the latest IC technology implementation for better picture quality such as ghost reduction tuner and 3 dimensional Y/C (chroma signal/color signal) separation circuit.

## VC-M1X Rechargeable Vacuum Cleaner with 50 % Enhanced Suction Capability



VC-M1X "Magiccyclone™" vacuum cleaner

As the successor to the previous model, which was greeted with great acclaim for the excellent maneuverability of the cleaner body on the floor and the convenience of requiring no dust bags, this new rechargeable Magiccyclone™ cleaner is being marketed with a new type of motor and a new nickel-metal hydride battery which increase its suction capability by about 50 %.

Its features are as follows:

- The suction power and clean exhaust is maintained through the adoption of a Magiccyclone™ system with which a whirling air current is produced in the dust cup and the resulting centrifugal force causes the dust to separate out from the air flow.
- A high-capacity nickel-metal hydride battery has been adopted to increase capacity and further enhance the compact and lightweight body characteristics and high suction capability.
- By using a magnet for the stator, a DC motor with increased power has been developed by implementing higher speed rotation and more compact and lightweight construction.
- A rotary brush driven by a low-input motor and an open/close valve in the front of the floor brush gives the unit even greater dust eliminating power, which allows it to tackle even stubborn wall hugging dust.
- The adoption of a quick charging circuit allows the cleaner to be continuously used for about 40 minutes in standard mode, when fully charged for 2 hours.
- A bottom lid open/close mechanism has been adopted which allows you to empty out the dust at a touch.
- The compact and lightweight body is suitable for either hand held use, or with a shoulder strap.

## Environmentally Conscious Non-Flon Refrigerator



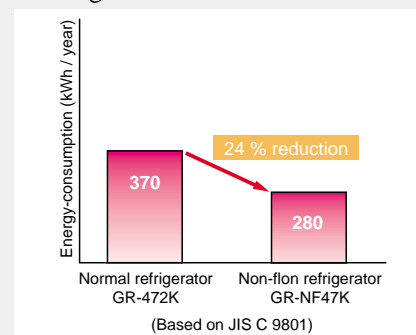
GR-NF47K environmentally conscious non-flon refrigerator

Toshiba has adopted isobutane (R600a) for use as a refrigerant for cooling. This hydrocarbon has approximately 1/400 of the earth warming coefficient of its predecessor substitutive-flon (HFC-134a).

Toshiba has accomplished a big decrease in the burden on the environment, drastically reducing the usage of materials such as lead and PVC (Poly Vinyl Chloride) and attaining the status of No.1 in the trade for energy-saving in the 451 litter and above class with Toshiba's high efficiency compressor solely for use with the new refrigerant and developments in the refrigeration cycle.

The Isobutane used as a refrigerant is flammable, so Toshiba has developed electric parts which are fully compliant with standards for explosion prevention. Features now included as standard in order to ensure the safety of each unit include a defrost heater with an operating temperature lower than the ignition point of the refrigerant, and technology for refrigerant leakage detection.

At the same time, cyclopentane, a non-flon material, has also been adopted as a foaming material.



Reduction in power consumption

## PREMAGE™ 355/455 Digital Multifunctional Peripheral

Toshiba has developed a digital multifunctional peripheral (35/45 sheets/min) that is both easy to use and economical and provides the high performance required in the office.

Warming up time has been reduced to approx. 30 sec. (1/8 that of former machines) by incorporation of the new IH (electromagnetic induction heating) fusing technology. In line with this, power consumption has been reduced by 38 % and Toshiba has been able to comply with the standard of Japanese Domestic Energy Saving Law for 2006.

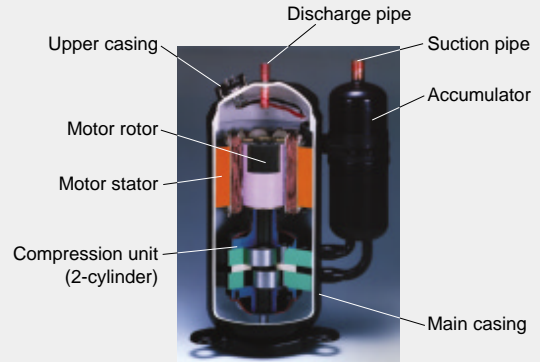
The main features are as follows:

- High resolution of 2,400 dpi equivalent x 600 dpi
- Advance scheduling for 6 copy tasks max.
- Hole punching and saddle stitching (booklet maker) are available using the optional finisher.
- Handles Super G3-fax / Network printer / Network scanner / I-fax / PC-fax as options
- Easy to use with printing job control function



PREMAGE™ 355/455 digital multifunctional peripheral

## DC 2-Cylinder Rotary Compressor Series for Light Commercial Use with R410A



Cross section of DC 2-cylinder rotary compressor

Toshiba has developed a DC 2-cylinder rotary compressor series for light commercial air conditioners using the new refrigerant R410A (HFC) for the first time in the industry.

Since it is now possible to realize higher efficiency in air conditioner systems, use of the new refrigerant R410A has been elected from the standpoint of global warming prevention.

One drawback to this material is that the load on the compression elements is increased because the operating pressure of R410A is about 1.6 times as high as that of R22. By adopting the 2-cylinder rotary mechanism and optimizing mechanical parts dimensions, it has been possible to achieve dynamic characteristics in the bearings equivalent to those of a conventional compressor, as well as ensuring high product quality.

Moreover, this compressor series achieves 20 % higher efficiency over a wide range of operating speeds and is 33 % to 50 % lighter than conventional compressors, thanks to the 2-cylinder rotary mechanism and the new DC motor, which consists of a rotor with a rare-earth permanent magnet and a concentrated winding type stator.