

TECRA

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Shared platform technology for greater investment protection:

The Tecra 8100 concept

Tecra
series



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Choose freedom.

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The Tecra 8100 series: Platform stability built in.



Staying competitive means choosing intelligent, future-proof technology with the flexibility to grow with your business.

Reducing Total Cost of Ownership throughout the life cycle of **your notebook.**

When Toshiba introduced the Tecra 8000 series, we set a revolutionary new benchmark in platform stability for all mobile PCs and popularised the TCO approach to notebook systems. Large organisations in particular benefited from this major breakthrough in investment protection.

The Tecra 8100 series* is the logical development of the Tecra 8000 series, with all models sharing the same fundamental concept of a stable, common platform designed to support all potential future developments in mobile technology – without the need to modify your existing IT infrastructure.

So no matter what new technical innovations come on stream, the Tecra 8100 series guarantees a consistent software profile, with no need for new model evaluation, no changes in motherboard, and no short-term investment in options and accessories. The Tecra 8100 docking solutions offer similar long-term viability.

Indeed, the new Tecra 8100 series offers a level of modularity that enables you to invest in a system today that is already prepared for tomorrow's technology.

As a result, TCO is reduced to a minimum throughout the entire life cycle of your Tecra 8100 notebook.

* The information provided in this brochure applies only to the manufacturer's latest product range. Some information may not apply to older models from the Tecra series. Please contact your Toshiba dealer for details.

Concept

Long-term **platform stability.**

With its shared platform and common components, the Tecra 8100 series eliminates the task of evaluating other models in the range. All drivers and software images remain the same after an upgrade, saving your IT department the time that would previously have been lost configuring software on a new machine.

With the Tecra 8100 concept and its advanced shared platform, Toshiba has set a range of new benchmarks when it comes to modularity, model diversity and flexibility. Ensuring maximum continuity and investment protection for your business. The results are total stability as your IT infrastructure grows, coupled with lower TCO for mobile users across the organisation.



From multinational company to single user, the Tecra 8100 series is the most cost-effective way of investing in tomorrow's technology today.

Toshiba recommends Windows® 2000 Professional for business.

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The Tecra 8100 series: taking technology further.

An intelligent notebook concept backed by powerful mobile technologies.

The Tecra 8100 series platform is designed to support all new and future technologies, including the latest generation of Intel® Pentium® III processors with Intel® Speed-Step™ technology.

Other new and practical features include:



The many ports on the Tecra 8100 models include a PC Card slot.



- Improved productivity and ease of use with Toshiba's AccuPoint™ II pointing technology, featuring two additional programmable buttons and a special Scroll mode.
- Sumptuous graphics thanks to a full 8 MB of Video RAM with AGP support.
- Unlimited communications anywhere in the world with the internal and internationally compatible V.90 data/fax modem.
- Stylish, slimline and lightweight case with metallic-look lid.

Maximum use is made of the available space, but without compromising practicality.

Tecra 8100: an intelligent common platform philosophy with built-in investment protection.



Ease of use and ergonomic operation were key design requirements.

Innovative technology for long-term platform stability.

The Tecra 8100 series features common components across the range, ensuring easy integration of future technologies such as faster processors and larger hard disk drives – without having to modify existing software. All models use the same set of drivers and therefore offer the same range of expansion and docking options.

One of the decisive factors when it comes to upgrading a notebook is total compatibility with legacy docking solutions, SelectBay modules and, in particular, existing software images. Assured compatibility avoids the need to reinvest in software training, docking station units or other options and accessories in order to benefit from faster processors or larger hard disks.

Every notebook user is different. So are our notebooks.

Thanks to the range of configuration options available, the Tecra 8100 series can be used to equip all mobile users throughout your organisation – no matter what their roles.

Each model features the same, stable platform, while the various configuration options offer enough flexibility to cope with the most demanding applications and user requirements. This enormous model diversity based on one single platform is designed to help you simplify the IT infrastructure within your business. The immediate benefits are reduced costs for investment, service and training, as well as streamlined administration processes.

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The Tecra 8100 series:

Flexibility, functionality and security in one.



A customised solution to fit every application.

Thanks to its unique modular architecture, the Tecra 8100 series offers a wide range of configuration options. So if you'd prefer a CD-ROM drive instead of a DVD, or a second battery pack instead of a second hard disk drive, the Tecra 8100 series has the right solution for every application.

Each Tecra 8100 model can be configured to suit a wide range of tasks and meet diverse user requirements. What's more, each system can be upgraded throughout its entire life cycle, making for a longer service life and lower long-term costs for your business.

And remember, new technologies are constantly being developed throughout the life cycle of a notebook, most of which offer improved performance at lower cost. As a result, there is constant pressure on IT departments to upgrade notebook components or invest in new machines.

The Tecra 8100 concept puts an end to this problem. Now, new components can be installed at any stage after purchase, providing improved performance and relieving the pressure to replace existing systems.

Manageability for lower admin costs and increased efficiency.

The Tecra 8100 series also helps reduce TCO with its comprehensive range of manageability functions.

Asset management:

Every Tecra 8100 notebook supports BIOS Asset Tagging and Serial Numbering, making for effective network deployment and lower TCO. BIOS Asset Tagging allows customers to store a user-specific identification number in flash memory on each machine via the industry-standard DMI BIOS interface. Serial Numbering, which also uses the DMI BIOS, enables easier monitoring and tracking of the individual components within a notebook.

Health management:

Health management includes all network-based functions used to monitor the status of a notebook or PC. Technologies such as S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology) hard disk drives, ECC memory and ACPI enable users to identify potential problems in advance.

Remote management:

Wake on LAN enables network administrators to start up a Tecra 8100 notebook over a network. Service Boot allows administrators to start up a system whose hard disk is either empty or corrupted in order to resolve problems with the system or upgrade software quickly and easily. Together, Wake on LAN and Service Boot help minimise the demands on network administrators while maximising the productivity of users.

Effective security features

included.

Security is just as important for single users as for IT departments. Particularly if you happen to be working in locations where the very mobility of your notebook places it at greater risk of theft.

The Tecra 8100 series offers a range of effective security features designed to protect both the machine itself and the data it contains. After all, a loss of key hardware or sensitive information can seriously impact the profitability of your business.

There are therefore two principal aspects to notebook security:

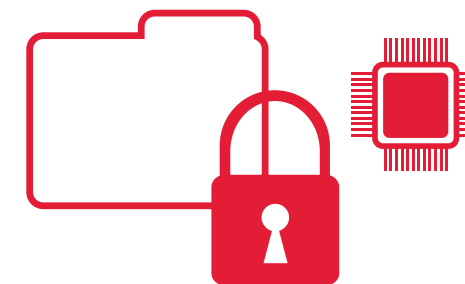
1. Ensuring that data is protected against loss or unauthorised access.
2. Ensuring that the computer and its components are protected against theft.

Loss of data:

On all Tecra 8100 series notebooks, users log in using a system password that is stored in flash memory and not in the CMOS. Flash memory is a form of semi-permanent memory whose contents are not lost when the computer is shut down. By storing the password in flash memory, Toshiba has been able to increase the overall security of the system, thereby protecting sensitive data.

Theft of hardware:

Anti-theft features on the Tecra 8100 series include PC Card locks, locking screws for the SelectBay and hard disk drive as well as a slot for a Kensington cable lock to secure the notebook in the docking station. And in case a unit is stolen despite all these precautions, other security options include user and HDD passwords.



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The Tecra 8100 series: the freedom to plan for the future.



Video out and an infrared port are both standard features.

Unlimited compatibility.

The Tecra 8100 series guarantees a longer service life for your notebook as well as greater protection for your investment through backwards, parallel and forwards compatibility.

1. Backwards compatibility

The SelectBay expansion slot featured on Tecra 8100 series models provides backwards compatibility with all legacy SelectBay modules developed for the Tecra 8000 series (FDD, DVD, CD-ROM, SelectBay HDD and adapter). There's even an adapter that lets you use Tecra 8000 batteries in your Tecra 8100 notebook. SelectBay modules developed for the Tecra 8100 series can also be used on Tecra 8000 series machines, ensuring maximum continuity and integration between the two series.

2. Parallel compatibility

Parallel compatibility is one of the key features of the Tecra 8100 series. All components, replacement parts, options and SelectBay modules purchased for any

individual Tecra 8100 model are fully compatible with any other machine in the series – throughout the entire life cycle of the Tecra 8100 platform.

3. Forwards compatibility

The key to future compatibility is the all-new docking concept developed by Toshiba for the Tecra 8100 series. Like the Tecra 8100 series itself, this concept is designed with maximum stability and flexibility in mind. In addition, the number of docking options has been reduced to two, making it easier to find the right solution to meet your needs. The first of these docking options is a modular solution comprising the NetDock Port Replicator and the Expansion Station. The second option, the CardDock, dispenses with an internal LAN adapter but still offers a full range of interface options, including network connectivity via a PC Card slot.

As you can see, the Tecra 8100 series sets a new standard for expansion, providing unprecedented compatibility and protection for your investment, as well as the flexibility to plan a long-term IT strategy for your business.

It couldn't get easier.

The Tecra 8100 series also offers a range of enhanced service and maintenance features. The number and variety of screws, for example, has been reduced to a minimum. Each Tecra 8100 model is therefore easier to dismantle and reassemble, thereby minimising downtime and reducing the workload for maintenance staff, as well as cutting TCO even more. But it's not just large-scale organisations that stand to profit – the service-friendly Tecra 8100 series also offers benefits for Toshiba service partners and single users.

Hardware:

The use of common components for all Tecra 8100 models minimises the stock-holding requirements for Toshiba channel partners. Components such as memory and hard disk drives can now be offered to a wider range of customers. The Tecra 8100 series also makes for easier logistics, lower quantities of replacement parts in store, and therefore faster and more reliable delivery. Cooperation between Toshiba and its service partners is also more efficient and cost-effective.

The SelectBay slot allows rapid swapping of CD-ROM or DVD drives, etc.

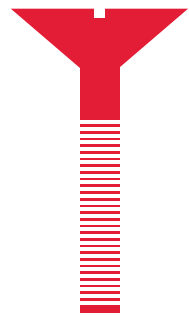


Software:

The shared product platform makes it easier for our partners to service all Tecra 8100 models. The platform, system and driver settings are the same across the range – regardless of the individual configuration. This enables service partners to offer customers hardware upgrades that are tailored to their specific requirements, and to maintain a consistently high standard of service at all times.

With the new Tecra 8100 series, Toshiba has taken its unique notebook concept for long-term reduction in TCO to a new level of performance, offering major benefits for every scale of business in every sector of commerce and industry.

Toshiba recommends Windows® 2000 Professional for business.



Reducing the number and variety of screws makes maintenance easier and quicker.

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The innovative docking concept of the **Tecra 8100 series.**

A key factor in the multi-dimensional compatibility of the Tecra 8100 series is Toshiba's new docking concept with the choice of two intelligent docking solutions. Further proof of our absolute commitment to compatibility.

Element 1: The NetDock **Port Replicator.**

The NetDock Port Replicator is the core element in the modular docking solution specially developed for the new Tecra 8100 series. For more demanding applications, the NetDock Port Replicator can be connected simply and directly with the second element, the Expansion Station, using the bundled serial PCI cable. Data is transferred between the two units at speeds of up to 55 Mbps.

The internal 3Com LAN chip guarantees secure and effective network connectivity, as well as comprehensive health, asset and remote management functionality for every Tecra 8100 model. From Wake on LAN to Service Boot, each function is designed to make network administration easier and more cost-effective. Other features include two USB ports, as well as serial, parallel, PS/2™ ports, line-in, line-out and monitor port.

All features are designed to expand the functionality of your Tecra 8100 notebook while lowering TCO for your business.



The Port Replicator connects with the Expansion Station for maximum flexibility.



Just slot your notebook into the CardDock for extended connectivity options.



Element 2: **The Expansion Station.**

The Expansion Station connects directly with the NetDock Port Replicator via a fast serial PCI cable and offers all the features you need to expand your Tecra 8100 series notebook to the full. In addition to a SelectBay slot for Tecra 8100 SelectBay modules and two PCI expansion bays for optional PCI adapters, the Expansion Station offers a range of options including a slot for a second hard disk drive and a second SelectBay slot that enables you to work with two SelectBay modules simultaneously. With its space-saving dimensions and bundled serial PCI cable, the Expansion Station can be positioned neatly out of the way beneath your desktop.



The CardDock – ideal for users who don't need an integrated LAN chip for network connectivity.

Element 3: **The CardDock.**

The CardDock is a stand-alone alternative to the modular docking system developed for the Tecra 8100 series, offering total expandability but without an on-board LAN adapter. In addition to 32-bit PCI bus technology, the CardDock features all major expansion interfaces, including serial port, parallel port, PS/2™ ports for keyboard and mouse, two USB ports, audio in and out, and an external monitor port. There's also a PCMCIA-compatible PC Card slot for one Type II or one Type III PC Cards, which can be used to connect to a network. Like the modular system, the CardDock is another important contribution to lower notebook TCO.

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Options and accessories for the Tecra 8100 series.

The long-term viability of the platform concept for the Tecra 8100 series is further underpinned by a comprehensive range of options and accessories designed to ensure total compatibility throughout the life of your notebook.

In addition to the new modular docking concept developed for the Tecra 8100 series, Toshiba has assembled a range of other practical options that will enable you to adapt your Tecra 8100 notebook quickly, easily and intelligently to new applications and environments. So whether you need greater network connectivity, better manageability, or just another few megabytes of RAM, Toshiba has the solutions to help you adapt. All options and accessories feature the same outstanding build quality you'll find in all our products, and are backed by the expertise, service and customer support of our extensive network of authorised resellers. Because when a notebook concept has a future this bright, we also want to make sure it stays that way.



NetDock Port Replicator

PA3017E-1PRP

The core element in the modular docking concept specially developed for the Tecra 8100 series (see previous page for details).



Expansion Station

PA3018E-1DST

The second element in the Tecra 8100 docking system. The Expansion Station can either be positioned on the desktop or tucked away neatly underneath. With the optional Expansion Station SelectBay adapter and Expansion Station hard disk drive adapter, all Tecra 8100 SelectBay modules and hard disk drives can be used on the Expansion Station. The Expansion Station features two free PCI slots as well as standard 3.5" and 5.25" bays.



CardDock

PA3028E-1PRP

Stand-alone alternative to the modular docking system, offering a wealth of features to help you make the most of your Tecra 8100 notebook. Includes a slot for a Kensington cable lock – which also protects the PC Card slot – as well as an auxiliary lock to secure your notebook in the CardDock.



SelectBay SuperDisk (LS 120) drive SelectBay Zip drive

¹⁾ 2793006
²⁾ 2793004

The SelectBay SuperDisk module¹⁾ can be used to store as much as 120 MB of data on SuperDisk media, while the SelectBay Zip drive²⁾ enables you to back up and exchange data on inexpensive 100 MB Zip disks.



SelectBay CD-ROM, DVD-ROM and CD-RW drives

¹⁾ PA3015U-1CDD
²⁾ PA3014E-1DVD
³⁾ 2793009

These SelectBay drives provide instant compatibility with high-volume CD-ROM¹⁾, DVD-ROM²⁾ and CD-R (Recordable)/CD-RW (ReWritable)³⁾ media. All drives are extremely easy to use and offer a cost-effective means of storing, distributing and backing up data.



SelectBay hard disk drive adapter and drives

¹⁾ PA3020U-1OTR
²⁾ PA3012U-1H06
³⁾ PA3027U-1H12
⁴⁾ PA3029U-1H18

The SelectBay hard disk drive adapter¹⁾ can be used to connect a second internal hard disk drive (6 GB²⁾, 12 GB³⁾, 18 GB⁴⁾).



Backup and SelectBay battery packs

¹⁾ PA3009U-1BAR
²⁾ PA3010U-1BAR

These backup and SelectBay battery packs are hot swappable and feature the latest environment-friendly lithium ion technology.



Battery charger

PA3011E-1CHG

This charger can also be used to recharge batteries while the notebook is running. An electronic control system prevents overcharging, ensuring maximum battery life for years to come.



Memory expansion modules

¹⁾ PA3004U
²⁾ PA3005U
³⁾ PA3051U-1NME

No one wants to take risks with memory. Which is why all our memory modules are rigorously tested before shipping, giving you the peace of mind that the additional RAM will offer the same flawless performance as the built-in memory in your Toshiba notebook. These state-of-the-art expansion modules are available in 64¹⁾, 128²⁾ and 256³⁾ MB configurations.

Expansion Station hard disk drive adapter

PA3023U-1OTR

This 3.5" hard disk drive adapter can be used to connect internal hard disk drives for the Tecra 8100 series in a standard 3.5" bay for use in the Expansion Station or in Toshiba's Equium 3000 or 7000 desktop series (not shown).



Monitor stand

PA3021U-1OTR

It's never been easier to set up your monitor. The notebook and docking solution can be placed on the shelf below the monitor. The stand can handle monitors weighing up to 45 kg and with a screen size of 21", and it's guaranteed for 3 years.



AC adapter

PA2444-UE

Ensures fast, reliable access to mains power at home or on the road. Autosensing technology detects any voltage from 100 to 240 V, making it ideal for use anywhere in the world.

Toshiba. Experience and innovation you can rely on.

The Tecra 8100 series is the product of many years' experience and investment in mobile computing. Throughout that time, we've revolutionised the industry like no other manufacturer, regularly setting new benchmarks for others to follow. It's a commitment to innovation that has seen us rise to become the global market leader in mobile computing.



Innovative technologies.

Year on year, Toshiba invests more than six per cent of total revenue in research and development. This ongoing commitment to improvement means our customers and resellers are always guaranteed the latest in PC technology.

Reliable build quality.

When we develop a new notebook, we're never happy unless we're convinced it offers genuine benefits for our customers. Rigorous testing ensures that every computer we build not only fulfils all user requirements to the letter, but will continue to do so for years to come.

Intelligent design.

At Toshiba, we believe that the exterior form of a product is an important and integral part of the user interface. The principal design criteria for every new notebook are therefore maximum functionality, comfort and ergonomic benefits for the user.

Generous warranty.

It takes a certain amount of confidence in one's own products to offer the lengthy and comprehensive international warranties that we do. And even if it feels as if you'll never actually need one, it's still good to have the peace of mind that comes from choosing Toshiba.

Authorised reseller network.

Specialist backup is essential when using high-tech equipment such as a Toshiba notebook. Which is why we've developed an extensive network of authorised resellers and qualified service providers to ensure you receive all the advice and support you need – wherever you happen to be in the world.

Award-winning technology.

What's the secret of building award-winning notebooks and PCs? Sometimes it seems as if having the Toshiba logo is enough. As a regular recipient of independent awards from specialist publications and users around the world, we could be forgiven for resting on our laurels occasionally. The secret is, we never do.

Wealth of options.

While our standard specifications leave little to be desired, we recognise that there are occasions when extra functionality may be needed. As a result, we've assembled a carefully selected range of options and accessories to cater for every eventuality.

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