TOSHIBA
Leading Innovation

e-STUDIO307LP
e-STUDIO RD301

Product brochure

- Toshiba's unique erasable toner allows the reuse of regular office paper, which helps you save valuable resources.
- The e-STUDIO RD301 not only erases documents, but is also capable of scanning and archiving them for you. The paper is sorted for you into reusable and non-reusable paper.
- Saving paper also means saving natural resources and reducing the carbon emissions. With Toshiba's e-STUDIO307LP/RD301 you can reduce your paper usage without having to print less.

TOGETHER INFORMATION

Some documents just have to be filed and kept. There are e.g. legal obligations which require us to do so. These are permanent documents, printed with the intention to be kept long-term.

But very often we print documents even though deep down inside of us we know that we will probably not need them for very long. Eventually, as was to be expected, we throw them away. And sometimes we even print documents knowing very well we will throw them away within a few minutes or hours. Just think of all the documents you print out as a reminder to do something or to proof-read before sending. For exactly these non-permanent documents the e-STUDIO307LP/RD301 is the perfect solution.

Toshiba has developed a new system which will change the way we print. Instead of throwing away prints which are not needed anymore, you can now erase and reuse the paper.

The unique Toshiba Paper Reusing Device e-STUDIO RD301 is capable of de-colourising the text and images on documents printed on the e-STUDIO307LP, allowing you to reuse the paper. This significantly reduces the paper consumption. As a result, you save valuable resources and contribute to a greener tomorrow. It also leads to a better value-for-money ratio.

Optimising the use of resources is an effective way to increase profitability. Here is an example:

If you use one sheet of paper five times with the e-STUDIO307LP/RD301, i.e. re-using it four times, you reduce your paper consumption by 80% without needing to print less. Assuming that you print 4,000 pages per month this means that after five years you will have saved 192,000 sheets of paper. In other words: The same amount of paper which you would usually use in one year, will now last five years.

And the more often you reuse a sheet of paper, the more you can save. Simply re-use the paper for your next non-permanent print job. Over and over again.

KEY FEATURES

1 The e-STUDIO307LP has an efficient print speed of 30 pages per minute and operates with regular office paper.

2 The optional RADF for the e-STUDIO307LP has a 100-sheet capacity and increases your efficiency.

3 Easy access to the print, scan, copy and fax function via a large colour touch panel.

4 Erasable blue toner, which allows the reuse of paper.

5 A maximum paper capacity of 2,300 sheets for smooth processing of large print jobs.

6 The e-STUDIO RD301 erases documents printed on the e-STUDIO307LP. It can also scan and archive documents - all of this within just a few seconds.

7 The Paper Reusing Device processes documents at a speed of 30 pages per minute.

8 Erased paper is automatically sorted into reusable and non-reusable paper.

REUSE BEFORE RECYCLING

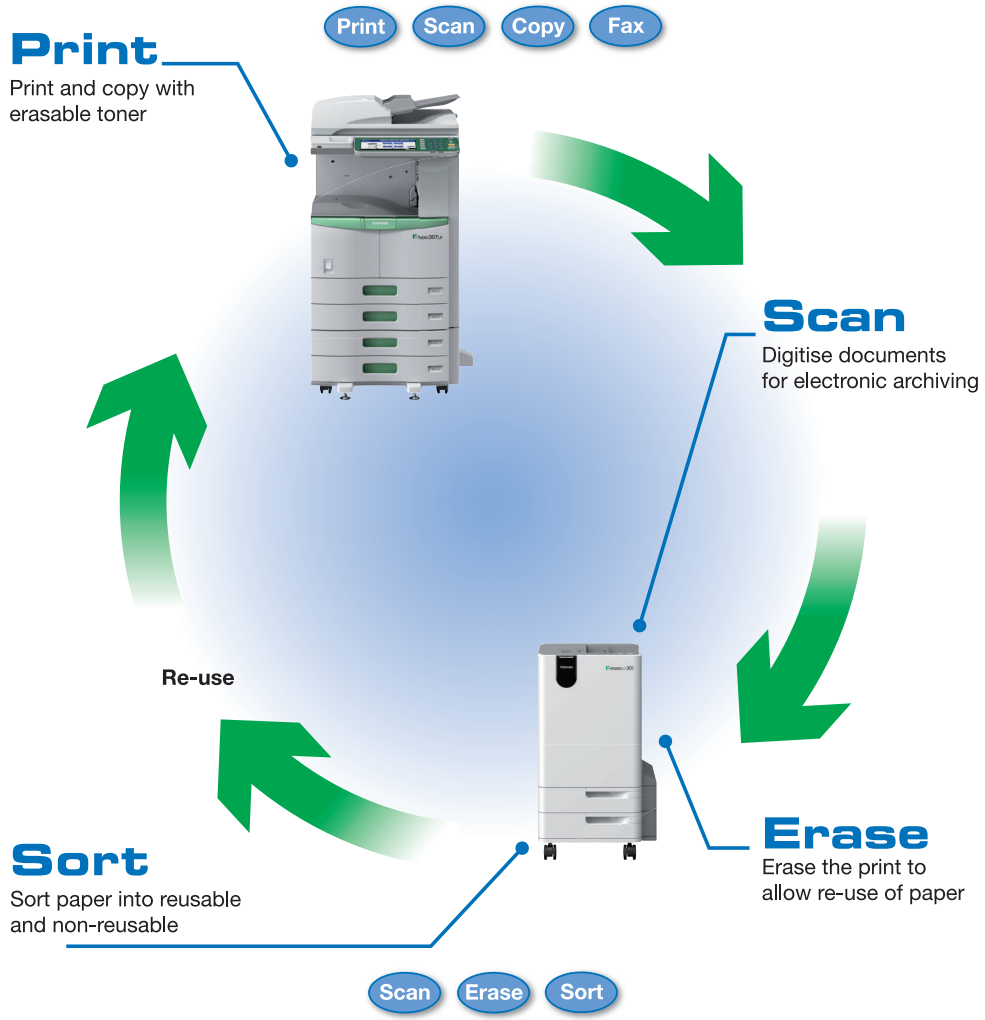
Reduce - Reuse - Recycle. These 3Rs are the base of environmental awareness. The e-STUDIO307LP/RD301 now fills the gap and makes the reuse of paper possible. Most of our natural resources are limited and using them as efficiently as possible is mandatory if we want to be responsible citizens.

Trees are renewable resources, but it takes a lot more to make paper. The process involves among others the use of water - a natural resource which is vital for all known forms of life, but is becoming scarcer in certain parts of the world.

Over the past few years the process of making paper has become more and more environmentally friendly. Decades of innovations have resulted in resources being used to their fullest extent. Additionally, recycling paper has helped save resources.

Toshiba has now added a new level to environmentally conscious use of paper: Reusing it before recycling it. By using paper e.g. five times with the e-STUDIO307LP/RD301 before recycling it, it is possible to save 80% of natural resources otherwise needed to print the same volume.

CHANGING THE WAY WE PRINT



FOR A GREENER TOMORROW

Efforts to reduce the carbon emission are being made on a global level. With the possibility to reuse paper when printing, the e-STUDIO307LP/RD301 helps achieve this goal.

Greenhouse gases have a huge impact on the global climate and efforts to reduce the CO_2e emission are being made all over the world. The European Union e.g. aims at reducing the greenhouse gas emissions by 80% by 2050.[1)]

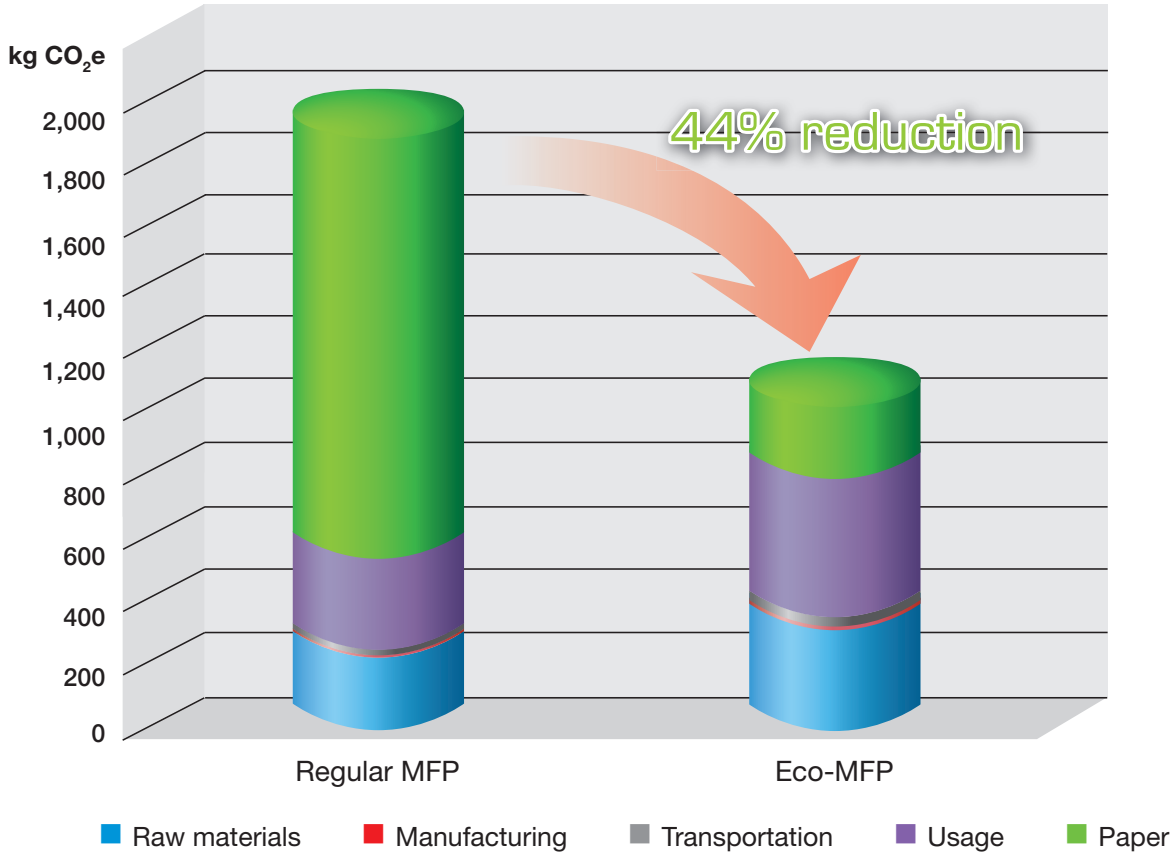
Over the entire life cycle of an MFP it is the paper - not the manufacturing, transport or usage - which accounts for largest part of the CO_2e emission. This is due to the fact that when producing one tonne of paper, approximately one tonne of CO_2e is emitted.[2)]

As the e-STUDIO RD301 is capable of erasing text and images from documents printed on the e-STUDIO307LP, it allows you to reuse the paper. As an example: when using each sheet five times, you reduce your paper consumption by 80%. This of course also significantly reduces the CO_2e emission - in our case by 44% - and helps to protect the environment.

The exact savings you can achieve by using Toshiba's e-STUDIO307LP/RD301depend on may different factors and have to be calculated based on the individual condition at your company. We would be delighted to analyse your saving potentials for you. Contact us via our website at toshibatec.eu.

1) European Union. A Roadmap for moving to a competitive low carbon economy in 2050. 8th March 2011.

2) Defra. Guidelines to Defra /DECC's GHG Conversion Factors for Company Reporting. 2011, p. 40.



Comparison of CO_2e emission assuming an average monthly document volume of 5,000 A4 sheets over five years and 5-time usage of paper. Based on the average kg CO_2e per kWh in the European Union. Value will differ depending on country, average monthly document volume, life cycle and paper reuse.

FULLY INTEGRATED INTO YOUR FLEET

The e-STUDIO307LP is more than just a green MFP. Its advanced technology is based on the Toshiba e-BRIDGE controller which ensures flexible connectivity with diverse applications and workflows.

Functionality

The e-STUDIO307LP offers you full functionality. Monochrome printing and copying with special blue toner as well as the colour scan function come as standard. And if you want you can extend the systems functionality by adding the optional fax.

Productivity

With a paper capacity of 2,300 sheets the e-STUDIO307LP is ready to handle even larger print jobs. You can make full use of a speed of 30 pages per minute without the need to refill paper. The system can also scan in colour with a resolution of up to 600 x 600 dpi. And the scan speed can be up to 57 images per minute.

Usability

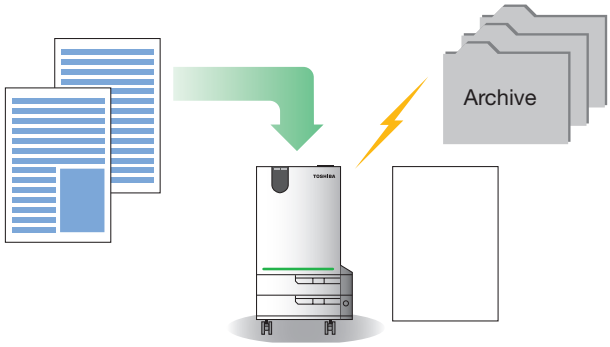
Ease of use is vital if you want to be effective. All Toshiba products are designed with the customer's needs in mind. The intuitive to use 22.8 cm (9") LCD touch panel e.g. lets you access all functions the e-STUDIO307LP has to offer with just a few clicks, ensuring a smooth workflow.

Connectivity

Thanks to the reliable Toshiba e-BRIDGE controller the e-STUDIO307LP becomes part of your modern workflow. A large choice of optional plug-ins, connectors or a fleet management tool allow you to easily customise the system according to your needs and existing workflows.

SAVE AND ERASE

The e-STUDIO RD301 can do more than just de-colourise paper. It fully integrates into your digital workflow and is capable of converting your documents into electronic files and saving them for you. Equipped with a single pass duplex scanner the system ensures fast conversion into JPG, TIFF or PDF format. These files are then stored on your server and become part of your digital archive, giving you access to the content at any time.



Once the document has been digitised, the content of the sheet is erased. For this the special toner on the paper is de-colourised by applying heat. As a consequence the toner turns from blue to transparent, thus virtually erasing everything that was printed. In a last step, the just erased sheet is scanned yet again and sorted into reusable and non-reusable paper and placed in the respective output cassette.

This entire process - archiving, erasing, sorting - is done fully automatically within just a few seconds. So with Toshiba's e-STUDIO307LP/RD301, being environmentally conscious will not stop you from using your time as productively as you are used to.

To show you how much paper you have saved, the ratio of re-usable paper is shown on the display of the e-STUDIO RD301. For a graphic showing this ratio, simply use one of our device management tools e.g. TopAccess.

PAPERLESS VS. LESS PAPER

The arrival of paperless offices has been predicted for over 30 years, yet still we print billions of pages each year. According to an IDC study[1] two million A4 pages are printed every minute in the EMEA region (Europe, Middle East and Africa) alone. That amounts to almost three billion pages per day!

Many of these prints do not need to be filed and are simply thrown away. With the e-STUDIO307LP/RD301 Toshiba now allows you to reuse the paper. On an average each sheet can be used up to five times. This has an significant impact on the environment.

So even if the time for paperless offices has not yet come, you can now use less paper without having to print less.

Technically speaking…

CO_2 vs. CO_2e

Carbon dioxide (CO_2) is one of the most prevalent greenhouse gasses and has become a proxy when measuring greenhouse gas emissions. However, it is only one of many greenhouse gases. Others include water vapour, methane, nitrous oxide and ozone.

To take into account the emission of these other greenhouse gases an equivalent measure has been devised by scientists: the CO_2e (carbon dioxide equivalent). It allows other greenhouse gases to be expressed in terms of CO_2.

The calculation is based on the relative global warming potential (GWP) of the different greenhouse gases. With CO_2 having a GWP of 1, methane (CH_4) e.g. has a GWP of approximately 25. Therefore, the emission of one tonne of CH_4 is equivalent to emitting 25 tonnes of CO_2.

So by using the CO_2e a far more accurate greenhouse gas emission can be measured, giving you a more precise picture of the effects of these emissions.

[1] IDC. Worldwide Page Volume and Vendor Share Program, October 2012.

FREQUENTLY ASKED QUESTIONS

What type of paper do I have to use?
You can use regular office paper. The e-STUDIO307LP/RD301 can handle all paper weights from 64-80 g/m^2. So there is no need to buy special paper.

What if I by mistake place paper which was printed on a regular MFP in the Paper Reusing Device?
That is not a problem. The regular toner will not be de-colourised in the Paper Reusing Device (PRD), so after scanning the paper, the e-STUDIO RD301 will simply sort the sheet into the “non-reusable paper” drawer.

The paper I use was produced CO_2 neutral. Why should I still use the e-STUDIO307LP/RD301?
Using paper — or any other product — which was produced CO_2 neutral is very worthy cause. With the e-STUDIO307LP/RD301 we simply go a step further: Instead of compensating for CO_2 emission we want to avoid it altogether. By reusing paper, you avoid the CO_2 emission related to producing the amount of paper otherwise needed to print the same amount of documents.

Do I have to throw away the paper if I write on it?
It is possible to make notes on documents, which were printed on the e-STUDIO307LP. All you have to do is use FriXion pens from the company Pilot. The e-STUDIO RD301 is capable of de-colourising the ink of these pens so that you can reuse the paper. However, if you use a regular pen, the ink cannot be de-colourised and therefore the paper cannot be reused.

Is the e-STUDIO307LP/RD301 suitable for all offices?
The environmental benefit depends amongst other things on the average monthly document volume in your office. Contact us for an individual analysis to see how much CO_2 you can save in your office.

Can I use regular toner in the e-STUDIO307LP?
No. The technology behind the e-STUDIO307LP differs from our other printing systems. Therefore, it is not possible to use regular toner.

I already have a Toshiba system. Can I use the special blue toner with it?
No. The technology of our regular MFPs is different from the one we use in the e-STUDIO307LP. Therefore, you cannot use the special blue toner in these systems.

How do you explain the CO_2 saving even though with the e-STUDIO RD301 you have an additional device?
If you only look at the CO_2 emitted during manufacturing and transportation of the MFP and Paper Reusing Device, then the value of course is higher than for a regular MFP. The saving is achieved by reusing the paper. Paper production is CO_2 intensive. By reusing paper you avoid this emission. The savings realised by avoiding the use of additional paper by far outweigh the CO_2 emission of the PRD. Use our online calculator to see how much CO_2 can be saved.

SPECIFICATIONS

General Specification

Print & Copy Speed	30 ppm (A4) 16 ppm (A3)
Warm-up Time	Approx. 65 seconds
Paper Size & Weight	Cassettes: A5R-A3, 64-80 g/m² Bypass: A5R-A3, 64-80 g/m²
Paper Capacity	2x 550 sheets (Cassettes), 1x 100 sheets (Bypass) Maximum: 2,300 sheets
Automatic Duplex	A5R-A3, 64-80 g/m²
Inner Output Tray	550-sheet capacity
Controller Type	Toshiba e-BRIDGE
Control Panel	22.9 cm (9") Colour Touch Panel
Memory	Toshiba Secure HDD 320 GB[1] / 2 GB RAM
Interface	10Base-T/100Base-TX/1000Base-T, High Speed USB 2.0, WLAN[2] (IEEE802.11b/g)
Dimensions & Weight	575 x 586 x 756 mm (W x D x H), ~ 57 kg

Print

Resolution	600 x 600 dpi, 2,400 x 600 dpi with smoothing
Page Description Languages	PCL5e, PCL6 (PCL XL), XPS and PostScript 3 compatible
Supported Systems	Windows 10/8/7/Vista/Server 2008 (32/64 bit), Windows Server 2012 R2/Server 2008 R2 (64 bit), Mac OS X 10.6.8-10.11, Linux/Unix, Citrix, Novell NetWare (NDPS), SAP, AS/400
Network Protocols	TCP/IP (IPv4/IPv6), IPX/SPX, EtherTalk, NetBios over TCP/IP
Print Functions	Universal Printer Driver, Driver templates, Driver plug-ins[2], Hold print, Print from USB, Tandem printing, AirPrint

Scan

Resolution	Max. 600 x 600 dpi
Scan Speed	Monochrome/Colour: 57/43 ipm (300 dpi)
Scan Modes	Auto-Colour (ACS), Colour, Greyscale, Monochrome (incl. Blue Original)
File Formats	JPEG, Multi/Single Page TIFF/XPS/PDF/PDF/A, Secure PDF, Slim PDF
Scan Functions	WS Scan, Scan to USB, Scan to E-Mail, Scan to File (SMB, FTP, FTPS, IPX/SPX, local), Meta Scan[2], Scan to Box (e-Filing), WIA, TWAIN

Copy

Resolution	Scan: 600 x 600 dpi Print: 600 x 600 dpi, 2,400 x 600 dpi with smoothing
First Copy	Approx. 4.9 seconds
Zoom	25-400% (Platen), 25-200% (RADF)[2]
Copy Modes	Blue Original, Text, Text/Photo, Photo, Colour Document, Custom
Copy Functions	Electronic sort, 2-in-1 / 4-in-1 mode, Edge erase

Fax[2]

Communication	Super G3, G3 - (opt. 2nd line), Internet Fax T.37
Transmission Speed	Approx. 3 seconds per page
Compression	JBIG, MMR, MR, MH
Fax Memory	1 GB (HDD) Transmission/Reception
Network-Fax	Driver Windows 10/8/7/Vista/Server 2008/ (32/64 bit), Server 2012 R2/Server 2008 R2 (64 bit)
Incoming Fax Routing	To shared folder (SMB, FTP, IPX/SPX), E-Mail, e-Filing

System & Security

Device Management	e-BRIDGE Fleet Management System[2], TopAccess for remote administration and configuration
System Features	e-Filing document server for secure storage, document distribution and Print on Demand (1 public box, 200 user boxes), 12,060 one-touch templates for storage of personalised settings or workflows, e-BRIDGE Open Platform[2], Embedded Web Browser, Job Skip
Accounting & Security	Role Based Access, LDAP support, 1,000 department & 10,000 user codes, Card Reader[2], Private print, Standard data encryption with Toshiba Secure HDD, Data Overwrite Enabler[2], IP and MAC address filter, Port filter, Support of SSL and IPSec[2] protocols, IEEE802.1x support, IEEE2600.1 compliant[2], Scan to Secure PDF

OPTIONS

For e-STUDIO307LP

e-STUDIO RD301	Paper Reusing Device (see right column for details)
RADF	100-sheet capacity, A5R-A3, 35-157 g/m²
JOB SEPARATOR TRAY	2 inner trays, 150- and 250-sheet capacity
PAPER FEED PEDESTAL	550-sheet capacity (1 Cassette), A5R-A3, 64-80 g/m²
DRAWER MODULE	550-sheet capacity, A5R-A3, 64-80 g/m²
DESK	
WORK TRAY	
FAX BOARD	
WIRELESS LAN MODULE	
CARD READER	
DATA OVERWRITE ENABLER	
IPsec ENABLER	
META SCAN ENABLER	
UNICODE FONT ENABLER	
ACCESSIBLE ARM	

e-STUDIO307LP:

e-STUDIO RD301

General Specification

Feeding Speed	Up to 30 sheets per minute
Warm-up Time	Approx. 40 seconds
Paper Size & Weight	A5R-A4R, 64-80 g/m²
Paper Capacity	Document feeder: up to 100 sheets
Output Trays	Re-usable paper cassette: up to 400 sheets Rejected paper cassette: up to 100 sheets
Control Panel	Graphic LCD panel
Memory	8 GB SSD / 2 GB RAM
Interface	10Base-T/100Base-TX/1000Base-T (incl. IPv6), High Speed USB 2.0
Dimensions & Weight	470 x 470 x 825 mm (W x D x H), ~ 45 kg

Scan

Resolution	Max. 300 x 300 dpi
Scan Speed	Up to 30 ipm
Scan Modes	Colour, Greyscale, Monochrome, Blue Original
File Formats	JPEG, Multi/Single Page TIFF/PDF/Slim PDF
Scan Functions	Single pass duplex scanning, Scan to USB, Scan to File (SMB, WebDAV)

Erase & Sort

Erase Speed	Up to 30 sheets per minute
Erase & Sort Functions	Single pass duplex erasing of Blue Original Toner and ink from Pilot FriXion pens and highlighters, Sorting based on paper condition analysis, Erasing mark counter[2)]

System & Security

Device Management	TopAccess for remote administration and configuration (incl. reuse counter settings)
System Features	10 public templates and 10 privat templates per user for storage of personalised settings and workflows, Energy save mode
Accounting & Security	LDAP support, 1,000 department & 10,000 user codes, Card Reader[2)], IP and MAC address filter, port filter, support of SSL protocols

Options for e-STUDIO RD301

INK CARTRIDGE	For erasing mark counter
CARD READER	

[1)] 1 GB = 1 billion bytes; the actual formatted capacity is less. Available capacity will also be less if software applications are pre-installed.
[2)] Optional

About Toshiba Tec

Toshiba Tec Nordic is part of the globally operating Toshiba Tec Corporation, active in various high-tech industrial sectors.

Toshiba Tec Corporation is a leading provider of information technology, operating across multiple industries - ranging from retail, education and business services to hospitality and manufacturing. With headquarters in Japan and over 80 subsidiaries worldwide, Toshiba Tec Corporation helps organisations transform the way they create, record, share, manage and display information.

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Together Information is Toshiba's vision for how people and organisations create, record, share, manage and display ideas and data.

It is based on our belief that the most successful organisations are those that communicate information in the most efficient way .

We make that possible through an integrated portfolio of industry-specific solutions, all of which reflect Toshiba's commitment to the future of the planet.