TOSHIBA
Leading Innovation >>>

e·STUDIO4508LP

> The world's first black and white multifunction system with erasable print function

> Thanks to the unique Hybrid printing technology, one single device can output black and white as well as reusable prints, which saves paper

> Equipped with state-of-the-art features for modern document workflows

> Designed for businesses that want to combine ecology, economy and efficiency

TOGETHER INFORMATION

CONNECT, INTEGRATE, SIMPLIFY AND REUSE

Toshiba's hybrid technology combines conventional printing with erasable printing allowing you to reuse paper over and over again. One single device easily connects, integrates, and simplifies your workflow — and also helps to save valuable resources.

At Toshiba, we are dedicated to serving our customers and committed to the future of the planet with the promise of Together Information.

Black and white printing has never been this green.

The world's first black and white MFP with erasable print function.

e-BRIDGE Next

EVERYTHING YOU NEED IN ONE SYSTEM

Ecology

The idea of a paperless office has been around for more than 40 years, yet today's business workflows still require a fair amount of documents to be printed. Toshiba now has a great solution for companies that want to be ecologically concious and still be efficient and economical. Our unique Hybrid printing technology offers everything you would expect from a state-of-the-art multifunction printer (MFP) and more: You can now even reuse the paper.

Economy

One single system can print in black and white as well as in erasable blue. For you, this means you can use the Hybrid MFP just like any other monochrome device to print in black. You can chose from a variety of paper feed and finishing options to cover all of your needs. Our erasable blue toner allows you to reuse the paper you have printed on, so that you can use less paper, without having to print less. Reducing paper usage will save natural resources, reducing your company's footprint and also helping you save money.

Efficiency

Driven by Toshiba's e-BRIDGE Next controller, the system will boost your productivity. It provides ease-of-use and ensures that the device is capable of adapting to your document workflow. Whether you need to connect to 3rd party solutions or simply want to optimize your internal processes, the Toshiba Hybrid MFP is there to help you enhance your overall efficiency.

KEY FEATURES

> A unique monochrome system with a speed of up to 45 pages per minute (PPM) and up to 35 PPM in erasable blue ensures the Hybrid MFP can handle even large jobs effortlessly.

> A customizable, tablet-like user interface, gives easy access to the print, scan, copy, fax and erase functions.

> Outstanding image quality you can rely on. No matter whether you use black or erasable blue toner, the result will always be the same: impeccable documents.

> The optional Dual Scan Document Feeder can hold up to 300 sheets while processing documents at an amazing speed of up to 240 images per minute (IPM).

> A 320GB FIPS 140-2 Validated Self-Encrypting Drive (SED) with Automatic Drive Invalidation (ADI) & Data Overwrite capability provides top level security. IPsec is available to securely encrypt data sent to and from the MFP.

OUR BEST TECHNOLOGY TO ENHANCE YOUR BUSINESS

Optimizing workflow to get the most out of available resources has become essential for businesses that want to be successful. We have designed our Hybrid MFP to offer you all of the features you need to be productive and efficient. But there's more: we have added a unique erasable print function, that can be selected in the print driver just like any other setting.

Connect

Having access to your documents when you need them is getting more and more important. We have made sure you get what you want, whenever you want and wherever you want.

> **Multi-Station Print** allows you to send print jobs from your computer and retrieve them at any convenient MFP by authenticating at that device, e.g., by swiping your badge.

> **Cloud Printing** ensures you have access to your documents no matter where you are. Our embedded apps let you send your documents directly to or print them from Microsoft OneDrive, Google Drive, Dropbox and others.

> **Mobile Printing** gives you the flexibility to print directly from your mobile device via AirPrint, Google Cloud Print, Mopria Print Service or our Toshiba e-BRIDGE Print & Capture app. With an optional module which activates the WiFi feature, you can easily connect mobile devices directly with the MFP.

Integrate

Toshiba's Eco Hybrid MFP incorporates the latest e-BRIDGE technology. This makes it easy to integrate the system into your existing IT infrastructure and helps administrators work more efficiently. The open platform architecture also enables the creation of customized workflows to simplify complex scanning, archiving or other document management tasks.

Simplify

We strongly believe that good technology must be easy to use, and that's how we designed the Hybrid MFP. The large tablet-like screen with an embedded web browser is easy to use and customizable to meet your needs, regardless of the industry you're in. It gives direct access to all functions of the MFP to increase user efficiency.

Reuse

Toshiba's Eco Hybrid MFP comes with a unique feature: paper can be reused thanks to the erasable blue toner, which has a positive impact on the environment. The erasing can be done either via the Hybrid MFP itself or the optional paper reusing device, the e-STUDIORD301.

PRINTING HAS NEVER BEEN THIS GREEN

How it works?

Very often we print documents, which are only needed temporarily, e.g., to proof-read a document or as a reminder to do something. For these cases, Toshiba's Hybrid system gives you the possibility to select the erasable blue toner, so that when you don't need your document anymore, you don't have to throw the paper away, but can erase whatever was printed on it and reuse the sheet. To make it easier rule-based printing can be activated in the print driver. This allows you to define multiple rules for the print driver to then automatically select the blue toner for all e-mails as these type of documents usually tend to be used only temporarily. For more permanent documents, select black and white.
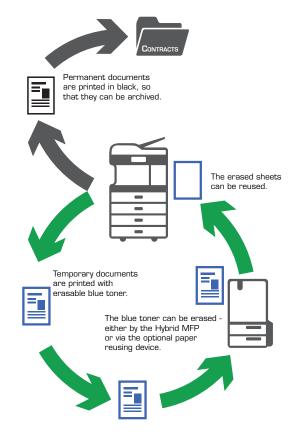
To easily track how much you have already saved, the e-BRIDGE Paper Reuse Report calculates your paper reduction, the average usage of a sheet of paper, and CO2 reduction, all in an easy to view dashboard format.

How can the toner be erased?

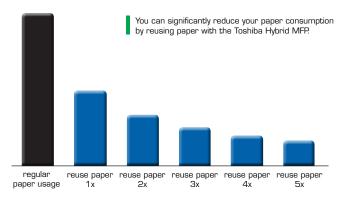Toshiba's Eco Hybrid MFP itself is capable of erasing the toner. Simply place the used paper into the designated paper cassette and start the process. The blue toner will be erased and you can then place the erased sheets back into the cassette of the MFP to print on them again.

Alternatively, you can use the optional e-STUDIORD301 — an erasing unit with advanced features. Not only does it erase at a speed of up to 30 PPM, it also sorts the paper into reusable and non-reusable paper. Additionally, it can also digitize the documents for electronic archiving before erasing the toner.

Permanent documents are printed in black, so that they can be archived.

The erased sheets can be reused.

Temporary documents are printed with erasable blue toner.

The blue toner can be erased - either by the Hybrid MFP or via the optional paper reusing device.

What is the benefit?

Assuming that you use a sheet of paper five times and you print 4,000 erasable pages per month, you can save 80% of your paper. This means that after five years you will have saved almost 200,000 sheets of paper. In other words: The same amount of paper which you would usually use in one year, will now last five years.

You can significantly reduce your paper consumption by reusing paper with the Toshiba Hybrid MFP.

| regular paper usage | reuse paper 1x | reuse paper 2x | reuse paper 3x | reuse paper 4x | reuse paper 5x |

Besides saving costs for paper (purchasing, storage and disposal) there is also a significant environmental benefit as you automatically reduce the carbon emission and water consumption, which is generated during the paper production.

Main Specifications

Copy System	Indirect Electrostatic Photographic Method/OPC/Laser Printing/ Heat Roller Fusing
Display	9" Color WVGA Touch Screen Tilting Display
Copy Speed	45 PPM (LT)
Erasable Blue Speed	35 PPM
Erase Speed	8.5 PPM
First Copy Out	3.6
Warm-Up Time	Approx. 20 Seconds
Copy Resolution	2,400 x 1,200 dpi with Smoothing
Stack Feed Bypass	3.9" x 5.8" to LD, Envelope
Multiple Copying	Up to 999 Copies
Paper Capacity	Standard 1,200 Sheets/Max. 3,200 Sheets
Original Feed	Optional 300-Sheet DSDF or 100-Sheet RADF
Scan Speed & Weights	DSDF Scan: Up to 240 IPM Duplex, 120 IPM Simplex (Monochrome or Color), Simplex: 9.3-110 lb Bond, Duplex: 9.3-110 lb Bond RADF Scan: Up to 73 IPM (Monochrome or Color): Simplex: 9.3-41.8 lb Bond, Duplex: 13.3-41.8 lb Bond
Max. Original Size	LD
Paper Feed Sizes	Drawer 1: 550 Sheets-ST-R to LD Drawer 2: 550 Sheets-ST-R to LD Stack Feed Bypass: 100 Sheets-3.9" x 5.8" to LD Opt. 550-Sheet Paper Feed Pedestal-ST-R to LD Opt. 550-Sheet Drawer for PFP-ST-R to LD Opt. Envelope Cassette for PFP-Approx. 60 Envelopes/550 Sheets-ST-R to LG Opt. 2,000-Sheet Tandem LCF (Pedestal Type)-LT Only
Paper Weights	Standard: 550 Sheets x 2-16 lb Bond-140 lb Index Stack Feed Bypass: 100 Sheets-14 lb Bond-140 lb Index Opt. 550-Sheet Paper Feed Pedestal-16 lb Bond-140 lb Index Opt. 550-Sheet Drawer for PFP -16 lb Bond-140 lb Index Opt. Envelope Cassette for PFP-16 lb Bond-140 lb Index Opt. 2,000-Sheet Tandem LCF (Pedestal Type), 17-28 lb Bond
Duplex	Standard Automatic Duplex Unit (16 lb Bond-140 lb Index)
Reproduction Ratio	25% to 400%
Max Duty Cycle	210K Month
Weight	Approx. 128 lb
Approx. Dimensions	23" (W) x 23" (D) x 31" (H)
Toner Yield	38.4K (Black) 21.5K (Erasable Blue)
Power Source	120 Volts, 50/60 Hz, 15 Amps
Power Consumption	Maximum 1.5kW (120V)
CPU	Intel Atom™ 1.33GHz (Dual-Core)
Memory	4GB
Hard Disk Drive	320GB Self-Encrypting Drive FIPS 140-2 Validated

e-BRIDGE Next Print Specifications

PDL	PCL5e, PCL5c, PCL6 (PCL XL), PS3, PDF, XPS, JPEG
Black Print Speed	45 Pages Per Minute (LT)
Erasable Blue Speed	35 PPM
Print Resolution	600 x 600 dpi (1 bit) or 2,400 x 600 dpi (with Smoothing), 1,200 x 1,200 dpi (2 bit) or 3,600 x 1,200 dpi (with Smoothing) PS3 Only
Operating Systems	Windows® Vista, Windows Server® 2008/R2, Windows® 7, 8, 8.1, 10, Windows Server® 2012/R2, Macintosh® (Mac OS × 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 10.10, 10,11), Unix®, Linux®
Network Protocols	TCP/IP (IPv4, IPv6), NetBIOS over TCP/IP, IPX/SPX® for Novell® Environments, EtherTalk® for Macintosh Environments
Printing Protocols	SMB, LPR/LPD, IPP (Ver.1.1) w/Authentication, AppleTalk PAP or EtherTalkTM, Port 9100 (bi-directional), NetWare P-SERVER LPD w/ iPrint, WS Print, FTP
Print Drivers	Windows® Vista SP2 (32-bit, 64-bit), Windows Server® 2008 SP2 (32-bit, 64-bit), Windows Server® 2008 R2 SP1 (64-bit), Windows® 7 SP1 (32-bit, 64-bit), Windows® 8/8.1 (32-bit, 64-bit), Windows Server® 2012/R2 (64-bit), Windows® 10 (32-bit, 64-bit), Mac OS® X 10.6.8, 10.7.4, 10.8, 10.9, 10.10
Interface	RJ-45 Ethernet (10/100/1000 Base-T), USB 2.0 (High-speed), Optional 802.11b/g/n, Wireless LAN, Optional Bluetooth
Wireless Device	AirPrint®, Mopria®, e-BRIDGE Print & Capture Application on iOS and Android (Available via Apple App Store or Google Play)
Device Management	TopAccess, EFMS 6.2 (e-BRIDGE Fleet Management Software)
Account Control	Up to 10,000 users or 1,000 Departments Supports User Authentication (on Device), Login Name/Password (via Windows domain) or Login Name/Password (via LDAP Server) for Copy, Print, Scan, Fax, List, and User Function
Accessibility Features	Tilt Front Panel, Job Programs, Universal Grip for Paper Trays, Disable Screen Timeout and Audible Beep Message Alerts

Security Features	User Authentication, On-Board Data Scramble Function, SCEP, Disable e-Filing, Disable Copy, Disk Overwrite, IP Address Filtering (10 Sets), MAC Address Filtering (10 Sets), Network Service Control, Network Port Control, SMB Packet Signing, SSL (HTTP, IPP, LDAP, SMTP, POP, FTP, DPWS), IPsec (IKEv1, IKEv2), Security Mode Change, CC Certified (ISO/IEC15408 EAL3+)*, IEEE2600.1, IEEE802.1X, Digital Signature for Client Utilities, Password Policy, Password Lock, Password Expiration, Self Testing, Job Access Control, Log Access Control for Job Log, Security Stamp * Compliant with IEEE2600.1 in High security mode.
Environmental Stds.	Energy Star (V2.0), EPEAT Gold, Blue Angel Mark (RAL UZ-171, MFD), Canadian ECP, Californian Proposition 65, Nordic Swan, RoHS
Certification	WHQL (Windows 7, 8, 8.1, 10, 2008 R2, 2012, 2012 R2), Novell, Citrix, SAP

Scan Specifications

Scan Speed	DSDF Scan: Up to 240 IPM Duplex, 120 IPM Simplex (Monochrome or Color) RADF Scan: Up to 73 IPM (Monochrome or Color)
Scan Modes	Standard: Full Color, Auto Color, Monochrome, Grayscale
Scan Resolution	600 dpi, 400 dpi, 300 dpi, 200 dpi, 150 dpi, 100 dpi
File Formats	Monochrome: TIFF-Multi/Single Page, PDF-Multi/Single Page, Searchable PDF (Opt.), XPS-Multi/Single Page, DOCX (Opt.), XLSX (Opt.), PPTX (Opt.) Color/Grayscale: JPEG, TIFF-Multi/Single Page, PDF-Multi/Single Page, Slim PDF, Searchable PDF (Opt.), XPS-Multi/Single Page, DOCX (Opt.), XLSX (Opt.), PPTX (Opt.)
Image Compression	Color/Grayscale: JPEG (High, Middle, Low)

Facsimile Specifications

Compatibility	Super G3
Data Compression	MH/MR/MMR/JBIG
Transmission Speed	Approx. 3 Seconds per Page
Fax Modem Speed	Up to 33.6 Kbps
Memory Transmission	100 Jobs (with HDD), 2,000 Destinations Max. 400 Destinations /Job
Scan Speed	0.7 Seconds per Page, Maximum 73 IPM

e-Filing Specifications

Operation Method	Color Touch Screen Control Panel or Client PC
Number of Boxes	1 Public Box, 200 Private User Boxes
Capacity of Boxes	100 Folders Per Box, 400 Documents Per Folder/Box, 200 Pages per Document

Accessories (Options)

Platen & Document Feeder Options

DSDF	MR4000
RADF	MR3031
Platen Cover	KA5005PC

Additional Paper Options

Paper Feed Pedestal	KD1058
Drawer Module	MY1048
Envelope Cassette Option	MY1049
Large Capacity Feeder	KD1059LT

Finishing Options

Inner Finisher	MJ1042
50-Sheets Staple Finisher	MJ1109
Saddle-Stitch Finisher	MJ1110
Hole Punch Unit for MJ1042	MJ6011
Hole Punch Unit for MJ1109/MJ1110	MJ6105
Bridge Kit	KN5005
Job Separator	MJ5015

Connectivity/Security Options

FAX Unit/2nd Line for FAX Unit	GD1370
Wireless LAN/Bluetooth	GN4020
Bluetooth Keyboard	GR9000
Accessory Tray	GR1250
Panel 10-Key Option	GR1260
Card Reader Holder	GR1290

Meta Scan Enabler	GS1010
IPsec Enabler	GP1080
Unicode Font Enabler	GS1007
Embedded OCR Enabler	
Single License	GS1080
Five Licenses	GS1085
Multi-Station Print Enabler	
Single License	GS1090
Five Licenses	GS1095
Advanced Scanning (ReRite)	GB1280V8
SharePoint Connector	GB1440
Exchange Connector	GB1450
Google Docs Connector	GB1540

Miscellaneous Options

Stand	STAND5005
Accessible Arm	KK2550
Work Tray	KK5005
Harness Kit for Coin Controller	GQ1280

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