TOSHIBA
Leading Innovation >>>

e-STUDIO

Brilliance
without limits.

SECURED EDITION

Witness the stunning colour performance of
e-STUDIO colour multifunction printer.

e-STUDIO2040cse /2540cse /3040cse /3540cse /4540cse

TOSHIBA
eco style

Colours so lively, they jump.

Ever been mesmerised by the brightly coloured red-eyed tree frog?
These little creatures have met their match.
The Toshiba **e-STUDIO colour multifunction printer** is yet another talented
artist. Rely on it to deliver the most impressive colour performance for all your
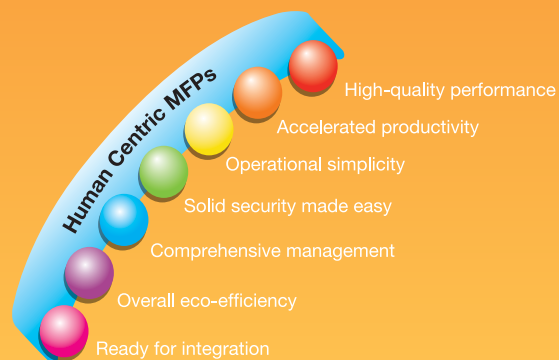office needs, and expect stunning results time after time.
Witness the brilliance of high-quality colour.

Toshiba has now added the e-STUDIO2040CSE/2540CSE/ 3040CSE/3540CSE/4540CSE to its colour MFP lineup. e-BRIDGE, the system controller and heart of the Toshiba MFPs, has evolved to a new level. The new version is based on Linux. Its system architecture has been reconstructed, offering many new benefits for you, including connectivity with other systems, simplified customization, and improved response speed, system serviceability, and maintainability.

The newly designed architecture, not only permits connection to a client PC but also allows it to be easily connected to a management system network. It also permits the use of role-based access control without additional investment in a server. An administrator can easily and comprehensively manage both printing costs and security by adjusting all users' access rights. And administrators can now clone the device settings whenever a new MFP is added, upgrade software, change settings, and perform many other tasks which formerly had to be done by service technicians. These improvements enable users to carry out more flexible and timely system management.

Toshiba's new e-STUDIO4540CSE series inherits the high reliability, durability and beautiful image quality that are traditional features of Toshiba MFPs, while providing new emphasis on network compatibility, ease of management, and improved environmental performance. These user-friendly MFPs make operation easy through Human Centric design and integrate features that meet wide-ranging needs both now and in the future. Moreover, Toshiba strengthened performance in the seven key areas to streamline network connectivity and device management.

Human Centric MFPs

High-quality performance
Accelerated productivity
Operational simplicity
Solid security made easy
Comprehensive management
Overall eco-efficiency
Ready for integration

READY FOR INTEGRATION

An advantage of the e-STUDIO4540CSE series is that these MFPs can be easily connected to a network. When MFPs are connected with corporate networks, they serve as an important part of the business workflow. The e-STUDIO4540CSE series fully display its true value as a network MFP not only when linked to your PC, but also when connected to an accounting workflow systems or work systems.

◢ With an advanced version of Toshiba's **e-BRIDGE Open Platform** that simplifies links between the e-STUDIO MFP series and value-added solutions, you can easily achieve smooth integration into the related applications. This allows you to streamline processes, improve efficiency and productivity.

◢ The Meta Scan function allows easy support for Meta Data (XML) that helps streamline the workflow by allowing connectivity with external systems and applications.

◢ The **e-BRIDGE Re-Rite** with e-STUDIO provides the attractive document capture solution to you. You can easily convert the large stacks of paper documents to electronic documents, or find the desired document by keyword search. You can reuse the paper documents as the electronic document such as MS WORD or EXCEL.

◢ Toshiba's **new printer driver** feature gives you the convenience of installing just one driver that comes with both PCL and Postscript language, which previously two different drivers are needed for installation. In addition, you can include plug-in tags for commonly used print applications, such as Job Build or Job Separator onto the same printer driver.

4

COMPREHENSIVE MANAGEMENT

The e-STUDIO2040CSE/2540CSE/3040CSE/3540CSE/4540CSE provides more flexibility in terms of user management, security management and even device management. This significantly reduce the time and trouble spent on initial set ups and installation.
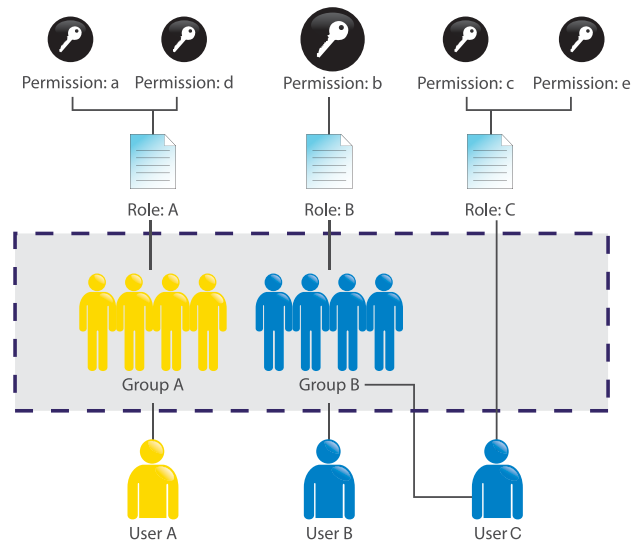
e-MPS

Managed Print Services

Tele Dynamics has introduced the **Managed Print Services (MPS)** to streamline entire document and print process, which includes data capturing, document archiving, document workflow, data security and environmental management. You can rely on Tele Dynamics MPS for devices that print, copy, scan, fax and the maintenance of printers as well as management of consumables. The full operating costs incurred in printing and document infrastructure will also be tracked across the organization. With this enhancement, you will enjoy dedicated pro-active account management, output management solutions, enhanced security, consolidated billing services, green-office advice and the convenience of a single point of contact.

The Role Based Access Control (RBAC) function accurately monitors individual or group usage. You can easily access to personal template through a single touch of MENU key function. RBAC also reduces unnecessary expenditures through flexible control of functions usage for all users, including guests.

The new version of **e-BRIDGE Fleet Management System (EFMS)** allows you to have consolidated management of e-STUDIO and other 3rd-party output devices in your office. User convenience is enhanced. You can use EFMS with a web browser on your own PCs instead of installing the software. You will be able to monitor and measure almost everything with regards to device usage or consumption in order to provide timely notifications on current and potential device disruptions.

Another useful feature is the **Alphanumeric characters to department code** that allows you to register the same name to both department code and name, which previously had to be done separately.
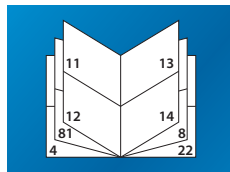
Permission: a   Permission: d   Permission: b   Permission: c   Permission: e

Role: A   Role: B   Role: C

Group A   Group B

User A   User B   User C

The e-STUDIO4540CSE series offers users high quality performance based on the high reliability and attractive functionality. With Toshiba's advanced image-processing technologies users can enjoy beautiful print quality.

The e-STUDIO4540CSE series has **PostScript overprint** function which allows user to get printout similar to production print. Using the CMYK overprint feature of the e-STUDIO4540CSE series, it is possible to print documents set to overprint in a form close to actual printing. This feature can be used to confirm the effects of overprint or incorrect settings before actual printing, avoiding trouble during printing and improving work efficiency.

"ON"   "OFF"

The e-STUDIO4540CSE series provides new finishing functions. These allow user to make attractive documents easily.

◤ **2in1 magazine sort** - you can make a booklet document including 2in1 form such as handout of a presentation file.

◤ **Poster print** - you can create a large size printout by separating print images into some pages, for checking draft poster at the same size or making large size output easily.
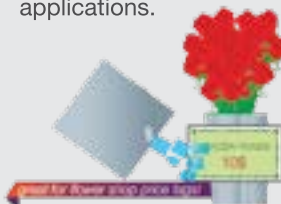
ECO CRYSTAL

Natural Waterproof Glossy Paper

ECO CRYSTAL redefines paper with its waterproof design and strong resistance to fading and curling. Made from natural materials, it provides all the safety and eco benefits of regular paper while delivering greater durability than laminated paper. It's the ideal choice for indoor/outdoor signs, posters, POPs, ID cards, restaurant menus and more.

Stunning colour and stability
make it perfect for e-STUDIOs.

Waterproof design
enables wide-ranging indoor and outdoor applications.

Durable construction
prevents colour deterioration as well as curling and tearing in direct sunlight and freezing temperatures.

Banner size variations
make it easy to create attractive banners and capture viewers' attention.

Premium gloss
on both sides ensures highly appealing dual-sided printing results.

Eco-friendly material
is recyclable and can be discarded just like regular paper.

ECO-EFFICIENCY

Toshiba has developed many of the world's leading technologies for conserving energy and protecting the environment. The e-STUDIO series are designed to satisfy the latest energy conservation standards. The e-STUDIO4540CSE series is friendly to users as well as the environment as it conforms to the newest test criteria set forth in **Energy Star** Version1.1.

◤ Power consumption during sleep mode is as low as 5W, contributing to an outstanding Energy Star TEC value.

◤ Recycled materials are featured and materials harmful to the environment are minimized.

◤ The power switch cover is made of biomass plastic.

ACCELERATED PRODUCTIVITY

The e-STUDIO2040CSE/2540CSE/3040CSE/3540CSE/4540CSE includes a lineup of live models ranging in speed from 20 to 45 sheets per minute for the colour MFP mid-range market. This range of speeds lets you maximise investment efficiency by choosing the model best suited to their performance needs.

The greatest advantage of this series is its total speed from information input to output. For example, it can improve work-flow of scan capacity up to 57spm in the conversion of data to PDF.

The **Tandem printing** feature permits the division of a print job between two MFPs to reduce printing time. Now you can complete a large printing job quickly, simply by distributing a printing job between two e-STUDIOs on a network.

With the **Gigabit Ethernet** interface, you can enjoy quick transfer of data between the e-STUDIO and other devices.

OPERATIONAL SIMPLICITY

The e-STUDIO4540CSE series offers an improved user interface that allows you to operate the MFP easily and more comfortably. With the new One Touch Print Template, you can set your printer drivers settings in a graphical manner, which displays the print image at a glance. When a print command is issued by an application, a one-touch template screen can now be displayed without opening a driver.

The conventional MENU screen does not allow you to customise it but the new e-STUDIOs allow you to flexibly customize the MENU so that you can have shortcuts to Template Button or to Template Group, and register the URL to Embedded Web Browser (EWB).

The large 8.5-inch colour touch panel features large icons for a clearer view. This new, easy-to-use interface incorporates numerous refinements for all-round operating ease.

Documents inside the e-filing box, which were formerly displayed only by file name, can now be displayed as thumbnails. This makes it possible to view the e-Filing documents by **Thumbnail** image. Now you can find your desired document easily.

Preview function makes it possible to check the scanned image instantly on the control panel. You no longer need to return to your PC to check the scanned data. If necessary you can redo scans at the e-STUDIO. In the e-STUDIO4540CSE series, this function became available on the **Scan and FAX functions**. In addition, you can replace, add and delete a page on scan preview function.

The e-STUDIO **Job Replicator** provides carbon copy function. You can easily make the carbon copy documents such as invoice and receipt by placing normal copy papers and coloured copy papers in separate drawers. The main sheets are output using normal white copy paper, while the carbon copies or duplicates are generated using coloured paper. This approach eliminates the need to purchase expensive specialized stationery, software or install impact printers.
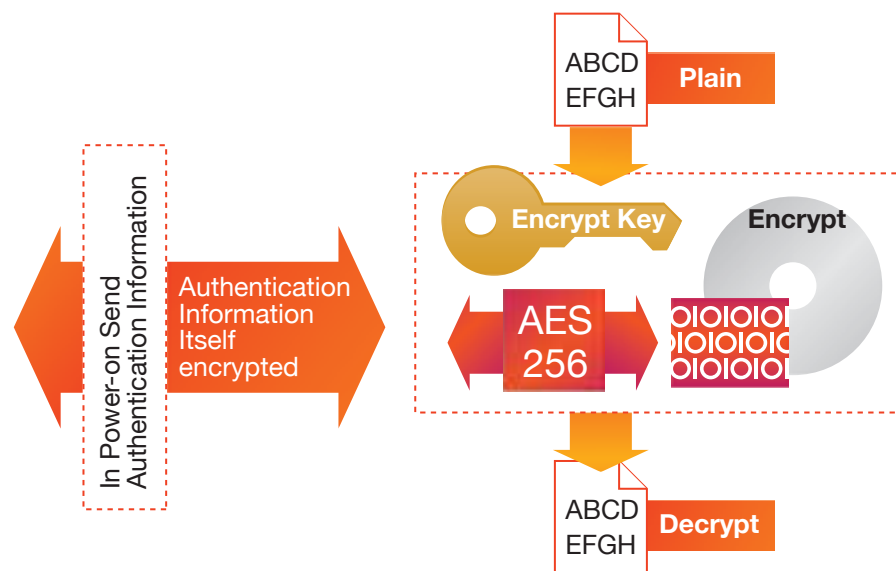
SECURITY MADE EASY

Toshiba MFPs offer the world's first Self-Encrypting Drives (SED) equipped with Toshiba's suite of security functions that bring an unsurpassed level of data protection to the e-STUDIO MFPs.

Toshiba's Security Hard Disk Drive

Toshiba's new Self-Encrypting Hard Disk Drive now comes standard in e-STUDIO2040CSE/2540CSE/ 3040CSE/3540CSE/4540CSE. It improves data security and reduces the risk of leaks of sensitive information stored on the e-STUDIO4540CSE series.

This new technology allows users to determine a range of security settings, including invalidation of encryption keys and data invalidation when a drive is removed from its housing or connected to an unauthorized host system.

Unlike previous models, the HDD encryption is preformed by the HDD itself and not the controller. The encryption key is also securely stored on the HDD and not the controller.

ABCD EFGH — Plain

In Power-on Send Authentication Information

Authentication Information Itself encrypted

Encrypt Key — Encrypt

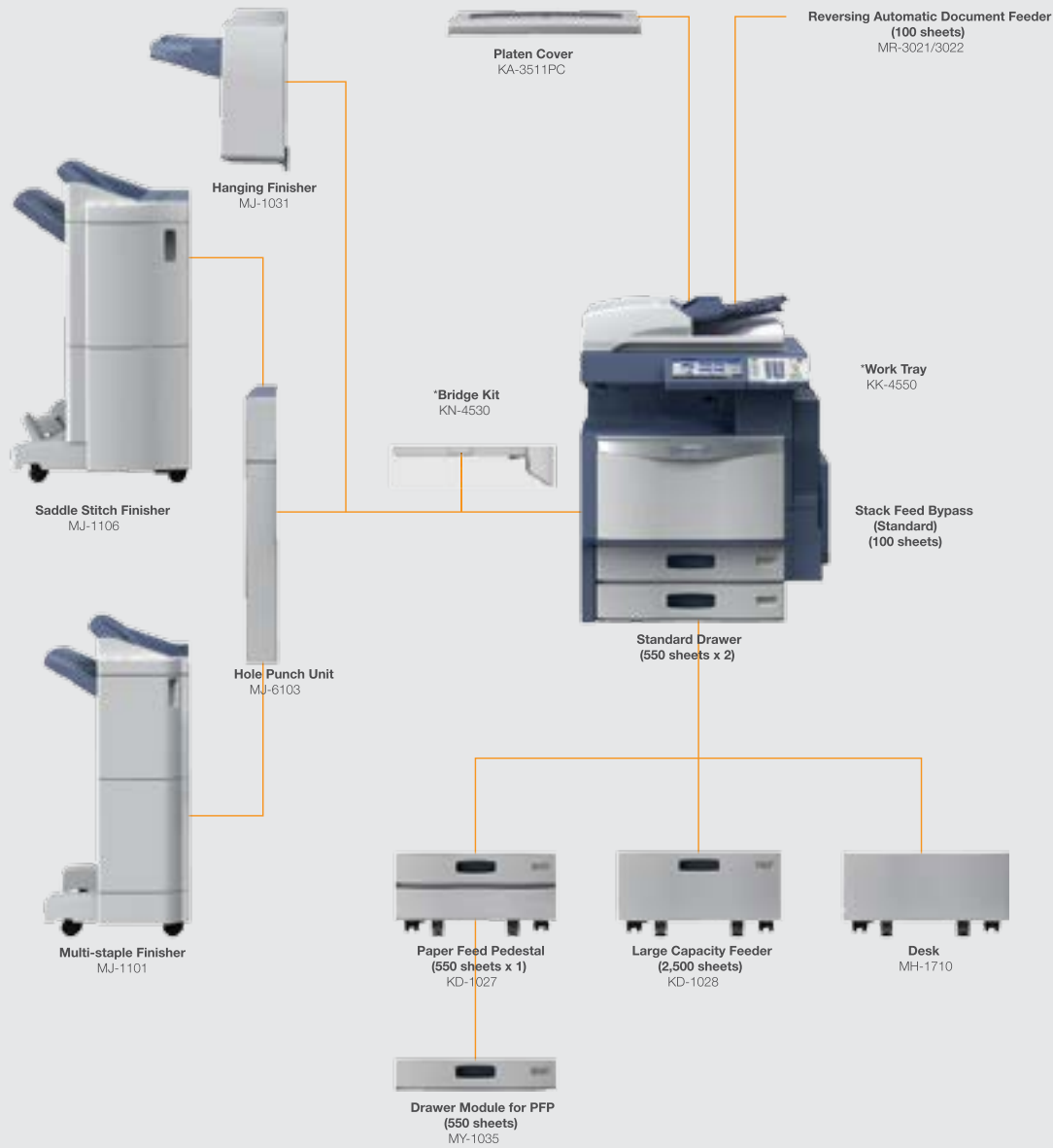AES 256 — OIOIOIOI OIOIOIOI OIOIOIOI

ABCD EFGH — Decrypt

When the HDD is removed or stolen from the e-STUDIO2540CSE series and installed into another device, the HDD data is erased automatically. If the HDD is returned to the MFP without being installed into another device, data will not be erased and is accessible.

When a MFP is at the end of its lease or end of life, data can be instantly erased by the service technician.

OPTIONS

Drawing on a rich lineup of flexible options, you can easily, quickly and inexpensively perform bookbinding, binding and finishing tasks from the new e-STUDIO4540CSE series.

Platen Cover
KA-3511PC

Reversing Automatic Document Feeder
(100 sheets)
MR-3021/3022

Hanging Finisher
MJ-1031

*Work Tray
KK-4550

*Bridge Kit
KN-4530

Saddle Stitch Finisher
MJ-1106

Stack Feed Bypass
(Standard)
(100 sheets)

Hole Punch Unit
MJ-6103

Standard Drawer
(550 sheets x 2)

Multi-staple Finisher
MJ-1101

Paper Feed Pedestal
(550 sheets x 1)
KD-1027

Large Capacity Feeder
(2,500 sheets)
KD-1028

Desk
MH-1710

Drawer Module for PFP
(550 sheets)
MY-1035

System Options

GA-1211EX	EFI Fiery Controller	GP-1190	Hardcopy Security Printing
GD-1250	FAX Unit	GQ-1110	Harness kit for Coin Controller
GD-1260	2nd Line for FAX Unit	GQ-1150	Harness kit for Card Controller
GN-1060	Wireless LAN Module	GS-1010	Meta Scan Enabler
GN-3010	Antenna for Wireless LAN	GS-1020	External Interface Enabler
GP-1070	Data Overwrite Enabler	KP-2004/2005	e-BRIDGE ID Gate
GP-1080	IPSec Enabler		

*Availability of Bluetooth Module and Wireless LAN Module may vary by region.

SPECIFICATION

General

Copying Process	Indirect electrostatic photographic method
Copying Type	1 pass colour system
Max. Paper Capacity	With 80g/m²
- Standard (1200 sheets)	Drawer 1 (550 sheets), Drawer 2 (550 sheets), Stack Feed Bypass (100 sheets)
- Max (3700 sheets)	Drawer 1 (550 sheets), Drawer 2 (550 sheets), Large Capacity Feeder (2500 sheets) Paper Feed Pedestal (550 sheets) Drawer for PFP (550 sheets)
Paper Size	Drawers: A3 to A5-R
	Automatic Duplex Unit: 305 x 457mm to A5-R
	Stack Feed Bypass: 320 x 460mm to A6, Banner (max 305 x 1200mm)
	Large Capacity Feeder: A4
	Paper Feed Pedestal: A3 to A5-R
Paper Weight	Drawers: 64 - 256 g/m² Stack Feed Bypass: 64 - 280 g/m² Large Capacity Feeder: 64 - 105 g/m²
Processor	1.0GHz
Memory Size	RAM : 1GB (Main memory), 512MB (Page memory) HDD: 80GB+ (Shared for all imaging functions)
Warm-Up Time	Approx. 160 seconds (e-STUDIO4540CSE) Approx. 89 seconds (e-STUDIO2040CSE/2540CSE/3040CSE/3540CSE)
Power Consumption	Max. 2.0kW (220-240V)
Reduction/enlargement	25% to 400% (Glass) 25% to 200% (RADF)
Dimensions	W699 x D742 x H759mm (with ADU and SFB)
Weight	Approx. 123kg

Print Specifications

Print Resolution	Printing: 600 x 600 dpi Scanning: 600 x 600 dpi
Print Speed	Colour: 20/25/30/35/45 ppm B&W: 20/25/30/35/45 ppm
Interface	Ethernet (10/100/1000BASE-TX), USB 2.0/High Speed USB Option : IEEE802.11b/g (Wireless LAN module)
Printer Language	PCL6 emulation, PostScript3 emulation, XPS
Protocols	TCP/IP(IPv4/v6), IPX/SPX, EtherTalk, NetBIOS over TCP/IP
Drivers	Windows XP/2003 server/Vista/2008 server/7 Mac OS X 10.2 to 10.7 UNIX, Linux

Copy Specifications

Copy Resolution	Printing: 600 x 600 dpi, 8 bit (Full colour) Scanning: 600 dpi x 600 dpi (Colour & Mono)
Copy Speed	Colour: 20/25/30/35/45 ppm B&W: 20/25/30/35/45 ppm
First Copy Out Time	Colour: 8.4/8.4/8.4/8.4/6.8 seconds B&W: 6.5/6.5/6.5/5.2/5.2 seconds
Original Size	A3, A4, A4-R, A5-R, B4, B5, B5-R, Folio
Original Scan Speed	Colour: 45 spm B&W: 45 spm
Colour mode	Auto Colour, Colour, Twin Colour Mono Colour, B&W
Copy mode	Text, Text/Photo, Photo, Printed Image, Map, Image Smoothing

Scan Specifications

Scan Resolution	100 dpi, 150 dpi, 200 dpi, 300 dpi, 400 dpi, 600 dpi
Scan Speed	Colour: 57 spm (300 dpi) B&W: 57 spm (300 dpi)
File Format (Colour)	B&W: TIFF, PDF, XPS Grayscale/Colour: JPEG, TIFF, PDF, Slim PDF, XPS Auto Colour: TIFF, PDF, XPS
Authentication	LDAP, SMTP, Windows Domain

e-Filing Specifications

Number of boxes	Public box: 1 User boxes: 200
Number of folders	100 per box
Number of documents	400 per box / folder
Number of pages	200 per document

Distributed by

Options

Fax/Network-Fax
- Fax Unit (GD-1250)
- Fax Unit 2nd Line (GD-1260)

Compatibility	Super G3, G3
Data Compression Method	JBIG, MMR, MR, MH
Transmission Speed	Approx. 3 seconds per page
Memory Transmission	Max. 400 destinations per job
Scan Speed	0.7 seconds/page (A4)

Covers
RADF (Reversing Automatic Document Feeder)	100 sheets (A3, A4, 80g/m²)
- MR-3021 (e-STUDIO2040CSE/2540CSE/3040CSE)
- MR-3022 (e-STUDIO3540CSE/4540CSE)

Inner Trays
	Work Tray (KK-4550)

Finishers / Hole Punch Units
- Hanging (MJ-1031)

- Tray Capacity :	1,000 sheets (A4, B5, A5-R, 80g/m²) 500 sheets (A4-R, B4, A3, B5-R, 80g/m²)
- Staple Capacity :	50 sheets (A4, B5, 80g/m²) 30 sheets (A4-R, B4, A3, FOLIO, 80g/m²)
- Dimensions :	W411 x D594.5 x H383mm

- Multi-Staple (MJ-1101)

- Tray Capacity :	Finishing Tray : 2000 sheets (A4, B5, A5-R, 80g/m²) 1000 sheets (A4-R, B4, A3, B5-R, FOLIO, 80g/m²)
	Stationary Tray : 250 sheets (A4, B5, A5-R, 80g/m²) 125 sheets (A4-R, B4, A3, B5-R, FOLIO, 80g/m²)
- Staple Capacity :	50 sheets (A4, B5, 80g/m²) 30 sheets (A4-R, B4, A3, FOLIO, 80g/m²)
- Dimensions :	W535 x D598 x H1092mm

- Saddle-stitch (MJ-1106)

- Tray Capacity	Finishing Tray : 3000 sheets (A4, B5, 80g/m²) 1500 sheets (A4-R, B4, A3, B5-R, FOLIO, 80g/m²)
	Stationary Tray : 250 sheets (A4, B5, A5-R, 80g/m²) 125 sheets (A4-R, B4, A3, B5-R, FOLIO, 80g/m²)
- Staple Capacity :	50 sheets (A4, B5, 80g/m²) 30 sheets (A4-R, B4, A3, FOLIO, 80g/m²)
- Saddle-stitch capacity :	15 sheets (A3, B4, A4-R, 80g/m²)
- Dimensions	W649 x D657 x H1086mm

- Hole Punch Unit (MJ-6103E) for MJ-1101/1106

- Dimensions :	W112 x D573 x H323mm

* Bridge Kit (KN-4530) is required for all finishers
* Staple cartridge: STAPLE-2000, STAPLE-2400

Drawers
- Paper Feed Pedestal (KD-1027)	550 sheets, A3 - A5-R, 64 - 256 g/m²
- Drawer Module (MY-1035)	550 sheets, A3 - A5-R, 64 - 256 g/m²
- Large Capacity Feeder (KD-1028A4)	2500 sheets, A4, 64 - 105 g/m²
- Desk (MH-1710)	

Document Capture/Workflow
- Meta Scan Enabler (GS-1010)

Information Communications Security
- Harness Kit for Coin Controller (GQ-1110)
- Harness Kit for Card Controller (GQ-1150)
- Hardcopy Security Print Kit (GP-1190)
- e-BRIDGE ID Gate (KP-2004 HID), (KP-2005 Mifare)
- Data Overwrite Enabler (GP-1070)
- IPSec Enabler (GP-1080)

Communications Connections
- Wireless LAN Module (GN-1060)
- Antenna (GN-3010)
- External Interface Enabler (GS-1020)
- EFI Fiery Controller (GA-1211EX)

Driven by

TOSHIBA

Tele Dynamics Sdn. Bhd. (66785-D)