SHARP

MX-M310N
MX-M260N

Digital Multifunctional System

A Multifunctional Performer
with the Space-Saving Advantage

ENERGY STAR

| COPY | NETWORK PRINT | NETWORK SCAN OPTION | SHARPDESK OPTION | FAX OPTION |

The Flexible Way to Meet Everyday Document Demands

With workflow-enhancing speed and advanced technology driving its business-essential functions, the MX-M310N/M260N can deliver high-performance copying and network printing to a broad range of businesses. Adding powerful expansion options—a space-saving finisher, a network scanner kit, the Sharpdesk document management application, or a high-speed fax kit—brings even greater flexibility and function. For protection against data leakage and unauthorised use, the MX-M310N/M260N features Sharp's industry-leading, multi-layered security solutions. And for ease of operation, it boasts an 8.1-inch touch-screen LCD control panel.

8.1-Inch LCD Panel

Through its logically laid-out control panel, the MX-M310N/M260N displays easy-to-follow instructions on a wide, clear **touch-screen LCD** to guide users step by step through adjustments to the edge/centre erase function, toner replacement, or other operating procedures.

COPYING

Speedy Copying and Quick First Copy Time

The MX-M310N/M260N has a quick first copy time of **4.5/4.8 seconds** to save valuable time when performing multiple short-run jobs. And with a continuous copy rate of up to **31/26 cpm***, you can do more copy jobs in less time.
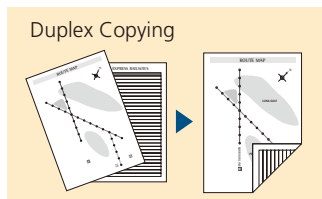
* A4 (8 1/2" x 11") size, long-edge feeding

31 CPM MX-M310N
26 CPM MX-M260N

Built-in Stackless Duplex Module

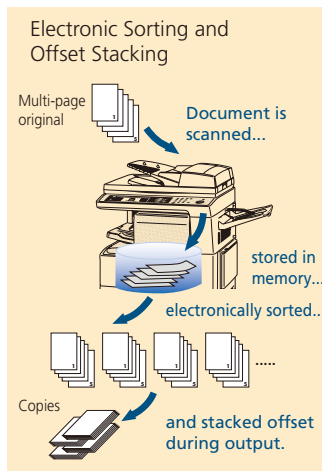The MX-M310N/M260N can automatically produce **duplex copies** from one- or two-sided originals. This reduces paper costs and helps save filing space. Duplex copying is even more productive when used together with the **optional RSPF** (reversing single pass feeder), which efficiently feeds in up to **100 pages** of either one- or two-sided originals.

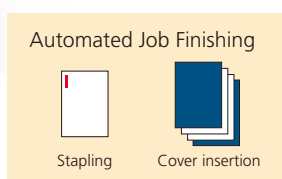Duplex Copying

Electronic Sorting and Offset Stacking

The MX-M310N/M260N's Scan Once/Print Many (SOPM) function does one scan of multiple-page documents and stores them in memory for making up to **999 copies** of each page. The Electronic Sorting function then **automatically collates** multiple sets of copies in page order without the aid of a sorter. The MX-M310N/M260N also stacks each set slightly shifted apart from the previous (**offset stacking**) for easy retrieval. All this adds up to speedy copying that boosts productivity even for large-volume documents.

Electronic Sorting and Offset Stacking

Multi-page original

Document is scanned...

stored in memory...

electronically sorted...

Copies

and stacked offset during output.

Space-Saving Inner Finisher

Creating professional-looking booklets has never been easier, thanks to an optional space-efficient **Finisher** that lets the MX-M310N/M260N handle document sorting and stapling jobs with automated ease.

Automated Job Finishing

Stapling   Cover insertion

Job Build for Large-Volume Scanning

With optional extra memory installed, the MX-M310N/M260N easily handles copy jobs exceeding the RSPF's 100-sheet capacity*[1]. Large-volume documents of up to 2,970 pages*[2] are automatically stored in memory. Users can then print the entire document in a single run.

*1: A4 (8 1/2" x 11") size
*2: Measured using Sharp's standard chart (A4 with 6% coverage). The actual storage limit depends on the amount of memory installed.

Large Paper Capacity

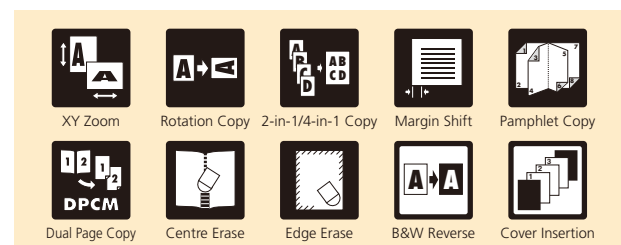The MX-M310N/M260N comes standard with 1,100-sheet paper capacity: two 500-sheet drawers and a 100-sheet multi-bypass feeder. For large-volume jobs and a wider selection of available paper sizes, the MX-M310N/M260N can accommodate two types of extra paper drawers for a total paper capacity of up to 2,100 sheets. When a tray runs out of paper, the **Auto Tray Switching** function automatically switches to another paper tray filled with the same size paper.
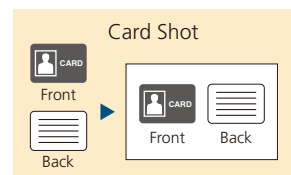
MAX 2,100 Sheets

Versatile Editing Functions

The MX-M310N/M260N is standard equipped with various image editing functions that make copying more convenient.

XY Zoom | Rotation Copy | 2-in-1/4-in-1 Copy | Margin Shift | Pamphlet Copy

Dual Page Copy | Centre Erase | Edge Erase | B&W Reverse | Cover Insertion

Card Shot

This function enables one-touch copying of both sides of a card (credit cards, ID cards, etc.) onto a single page.

Card Shot

Front
Back

Front   Back

High-Quality Imaging

600-dpi resolution and 256-level greyscale ensure detailed reproduction. **Digital Automatic Exposure Control** provides optimum exposure level, and **Text/Photo** mode automatically adjusts the contrast for originals containing both text and photos.

Other Key Features

- 25% to 400% zoom with preset copy ratios (50% to 200% via RSPF)
- Automatic paper/magnification selection
- Can handle heavy paper stock up to 200 g/m^2
- User control (100 accounts)
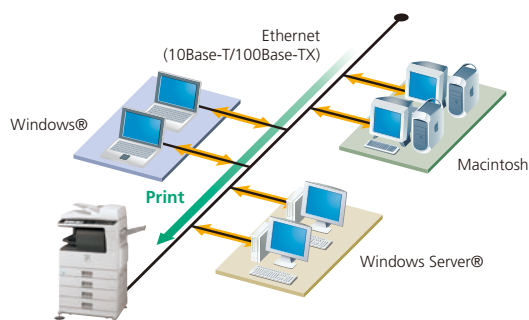- Pre-Heat and Auto Power Shut-Off modes

NETWORK PRINTING

High-Quality Printing

The MX-M310N/M260N is a high-performance printer supporting **PCL5e** and **PCL6** printer languages. For compatibility with more fonts and better graphics handling, **PostScript 3** is available with the MX-PK10 PS3 Expansion Kit. Also, the RIP Once/Print Many function saves print data in the MX-M310N/M260N's internal memory and transfers it to output at a quick rate of **31/26 ppm** in 600-dpi resolution. The MX-M310N/M260N's 600-dpi printing resolution can be enhanced to **1,200 dpi** (with smoothing) for ultra-detailed reproduction.

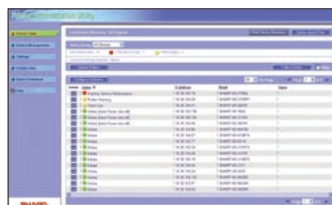**31 PPM** MX-M310N   **26 PPM** MX-M260N

Powerful Network Printing

The MX-M310N/M260N works as a network printer with the latest and most commonly used operating systems and network protocols, including **IPv6**, and even in mixed network OS environments. With a 64-bit, 300-MHz CPU, you get powerful network printing via 100Base-TX and 10Base-T Ethernet standards.

Ethernet
(10Base-T/100Base-TX)

Windows®

Print

Macintosh

Windows Server®

Network Utility Software

• **Printer Administration Utility** makes printer networks easier to manage by allowing network administrators to customise monitored items and view settings such as the IP address directly from their PC through a standard Web browser.
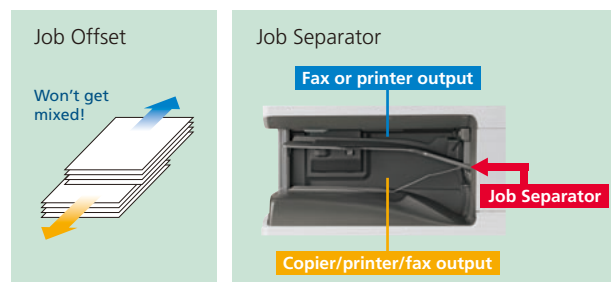
Web-based PAU 4.0

• If the MX-M310N/M260N is low on paper or toner, the **Printer Status Monitor** will alert you in the form of easy-to-understand graphics, allowing you to avoid problems before they arise.

Printer Status Monitor

Job Offset and Job Separator

The MX-M310N/M260N ensures your documents will stay neatly organised even when others are using the machine at the same time. To make it easier to locate and retrieve your documents from the tray, the MX-M310N/M260N's **Job Offset** function stacks each print job slightly shifted apart from one another. In addition, the optional MX-TR11 **Job Separator Tray** lets you send printer output to the Job Separator Tray or beneath it, preventing your job from getting mixed in with copies and faxes.

Job Offset

Won't get mixed!

Job Separator

Fax or printer output

Job Separator

Copier/printer/fax output
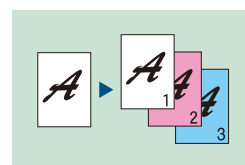
Document Finishing

Choose the optional space-efficient Finisher to automate time-consuming tasks such as sorting and stapling.

Various Print Applications

• With **PDF/TIFF Direct Print**, you save valuable time by printing PDF* and TIFF files without using the printer driver or opening applications: you can print the file directly from a Web page (push print) or an e-mail attachment.

* Direct PDF printing requires optional MX-PK10; please consult your sales representative for further details.

• **Carbon Copy Print** mode automatically outputs multiple printouts of the same data on plain and/or coloured paper from different paper trays; convenient for invoices and purchase orders.

• **Sample Print** allows you to check a trial set before printing out a document in large numbers in order to avoid printing mistakes.

Other Key Features

• Duplex printing, Pamphlet Style printing
• N-up, Fit-to-Page, Watermarks, Mirror Image
• Barcode font compatibility, font/form download
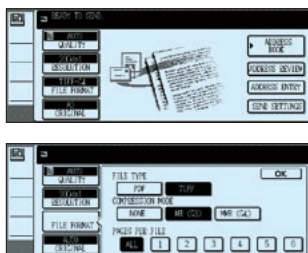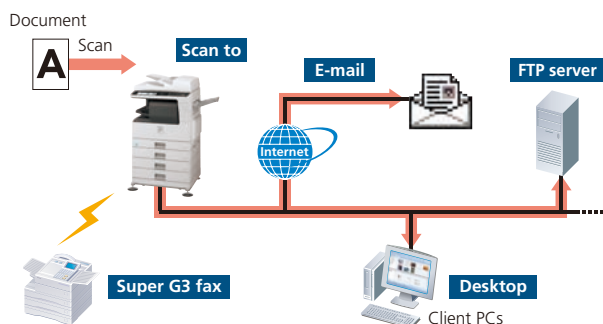• USB 2.0 port

A3 Network Scanning

The optional MX-NSX1 Network Scanner Expansion Kit turns the MX-M310N/M260N into a **network scanner*** that can be used with any Windows PC on the network. Converting any type of paper-based document, up to A3 (11" x 17") in size, into an editable digital file is as easy as making a copy.

* Also requires 128MB or more additional memory
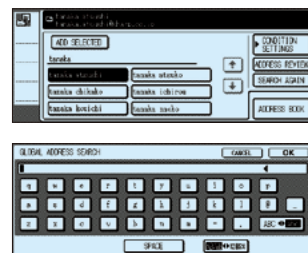
Multiple Distribution of Scanned Files

With the touch of a few buttons, you can choose different ways to distribute your scanned documents. **Scan to E-mail** allows you to send documents as an attachment to any e-mail address over the Internet. **Scan to FTP Server** lets you scan a document directly to an FTP server for special applications such as company-wide posting or archiving. **Scan to Desktop** enables you to send scanned documents directly to your PC desktop. With Sharpdesk, Sharp's powerful but easy-to-use document management software, editing and managing scanned documents is easier than ever. And **Scan to Fax** enables Super G3 faxing (see page 5).

LDAP Support

Built-in LDAP (lightweight directory access protocol) support eliminates the need to enter or register full addresses. Simply enter the first few letters of the recipient's name and the MX-M310N/M260N displays a list of possible matches on your company's LDAP server. This feature saves precious time and lets you avoid errors when typing e-mail addresses. After searching, selected addresses can be stored to the MX-M310N/M260N's address book. And the integrated **User Authentication** function (see page 6) blocks unauthorised access by requiring the user to log in before searching for an address.

Easy Text Entry

Use the LCD control panel's onscreen keyboard to customise file names or e-mail messages and subject titles, making it easier for the recipient to recognise and archive this information.
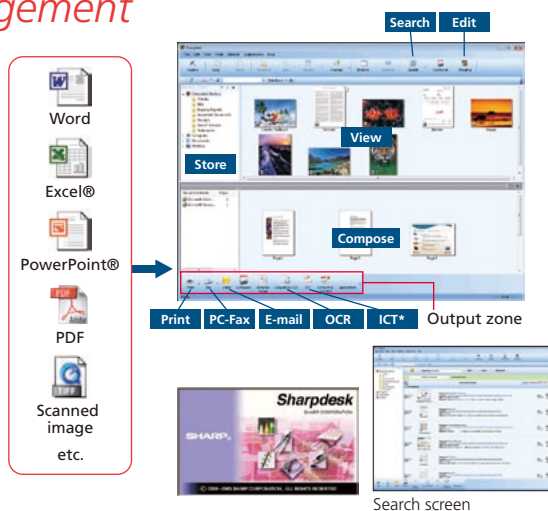
TWAIN Support

With support for the TWAIN standard, the MX-M310N/M260N allows you to use scanned images with any commercially available TWAIN-compliant application (push out method).

Document

A

Scan → Scan to

E-mail

FTP server

Internet

Super G3 fax

Desktop

Client PCs

Sharpdesk for Total Document Management

Sharpdesk is an original Sharp application that provides integrated desktop management of documents in over **200 file formats**, including scanned paper-based documents and those created with popular applications such as Word. It allows you to organise, edit, search, and distribute your documents, all with simple drag-and-drop operation.

- Intuitive desktop display features **thumbnail** viewing
- Sharpdesk Imaging provides **annotation** tools for paper-free proofreading
- Sharpdesk **Composer** combines different types of files into a single document
- **Optical character recognition** converts documents into editable text files
- **Output zone** distributes files to e-mail, printers, and other applications
- **File search** allows searching by file name, keyword, or thumbnail

Word

Excel®

PowerPoint®

PDF

Scanned image

etc.

Search Edit

View

Store

Compose

Print PC-Fax E-mail OCR ICT* Output zone

Search screen

* Image Compression Tool for converting images into high-compression PDF files
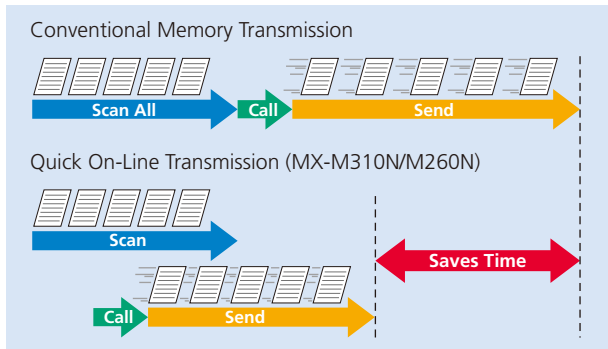
FAXING

High-Speed Operation

The optional AR-FX7 Fax Expansion Kit turns the MX-M310N/M260N into a **Super G3 fax** machine featuring a fast modem speed of 33.6 Kbps. Using JBIG compression technology, the MX-M310N/M260N can send an A4 (8 $^1/_2$" x 11") size page in under 3 seconds*. Working together with the machine's 1.5-second scanning, this function greatly enhances the efficiency of your faxing jobs.

SUPER G3

* Based on Sharp's standard chart with approximately 700 characters (A4 or 8 $^1/_2$" x 11" long-edge feeding) at standard resolution

Quick On-Line Transmission

The MX-M310N/M260N starts dialling and transmitting a multi-page document as soon as the first page is scanned into memory. This greatly reduces the overall time it takes to send the document.

Conventional Memory Transmission

Scan All → Call → Send

Quick On-Line Transmission (MX-M310N/M260N)
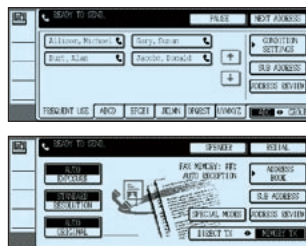
Scan

Call → Send

Saves Time

Duplex Transmission and Reception

With the optional RSPF, the MX-M310N/M260N scans both pages of two-sided documents and sorts them in memory. The pages are then transmitted in the proper order. Thanks to the standard duplex module, the MX-M310N/M260N can also print incoming faxes onto both sides of paper, thus saving you paper costs.

500-Number Auto Dialling

Register up to 500 numbers into the customisable directory of one-touch auto-dial keys, listed in alphabetical order for easy searches of specific numbers.

F-Code Communication

Conforming to the ITU-T F-Code (sub-address and passcode) standard, the MX-M310N/M260N is capable of F-Code confidential communication, F-Code relay request transmission, and F-Code memory polling with other fax machines regardless of the manufacturer or model.
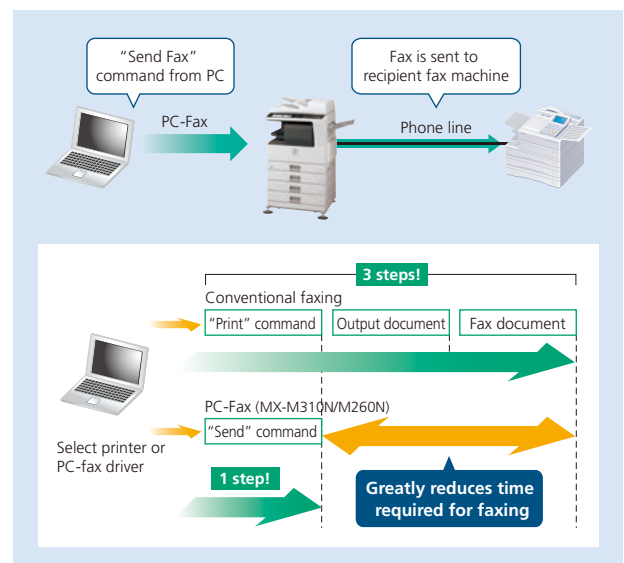
Super Fine Mode

You can set the MX-M310N/M260N to this ultra-high resolution to give the recipient crisp, clear reproduction of detailed images and fine text.

Multi Access

You get two different functions simultaneously; for example, you can scan documents into memory for transmission while you receive an incoming fax.

PC-Fax

A PC-Fax function allows you to directly send a document created on your PC to a recipient's fax machine via the MX-M310N/M260N. Since all faxing procedures are done on your PC without printing to paper, this function saves time, increases faxing productivity, and retains original document quality.

"Send Fax" command from PC

Fax is sent to recipient fax machine

PC-Fax

Phone line

3 steps!

Conventional faxing

"Print" command | Output document | Fax document

Select printer or PC-fax driver

PC-Fax (MX-M310N/M260N)

"Send" command

1 step!

Greatly reduces time required for faxing

Other Key Features

- **Automatic print reduction** automatically reduces the size of received faxes to fit the size of the printing paper
- **Memory transmission** stores documents in memory, allowing the originals to be returned to the user quickly
- **Memory reception** saves incoming faxes in memory if the MX-M310N/M260N runs out of paper or toner
- **Timer transmission** enables unattended after-hours operation when reduced phone rates are in effect
- **Polling** allows the user to retrieve a document left in the feeder of a remote fax machine
- **Programme keys** (up to 8 keys) are available to set up frequently used transmissions for instant recall
- **Long originals** (up to 1,000 mm long) can be sent using the RSPF (Note: Not possible for A3-wide paper or in Super Fine mode)
- **Dual page scan** allows faxing of pages from an open book or documents placed side by side
- **Job separator** separates incoming faxes from copier jobs
- **Offset stacking** slightly shifts individual faxes as they arrive for easy retrieval
- **Broadcast transmission** to up to 200 destinations
- **Anti-junk fax** blocks unwanted faxes from up to 50 specified fax numbers

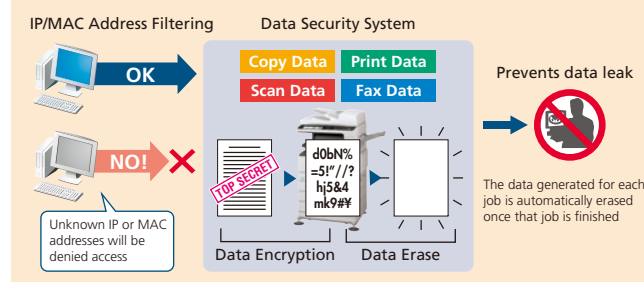Note: The AR-FX7 may not be available in some regions.

SECURITY

Industry-Leading Multi-Layered Security

With multiple levels of network and data security to cover a wide range of security needs, Sharp's industry-leading security solutions bring today's businesses increased confidence and peace of mind. The MX-M310N/M260N safeguards sensitive data with powerful, enhanced security functions that eliminate the worry of unauthorised use and guarantee greater protection for your confidential information.

Data Security Kit

Digital copier/printers or multifunction products can retain hundreds of pages of confidential information from previous jobs on their internal memory. To safeguard this information from unauthorised access, the optional **Data Security Kit** automatically **encrypts and erases** the data after each job is complete.

IP/MAC Address Filtering   Data Security System

Copy Data   Print Data
Scan Data   Fax Data

OK

NO!

d0bN%=5!"//?hj5&4mk9#¥

TOP SECRET

Unknown IP or MAC addresses will be denied access

Data Encryption   Data Erase

Prevents data leak

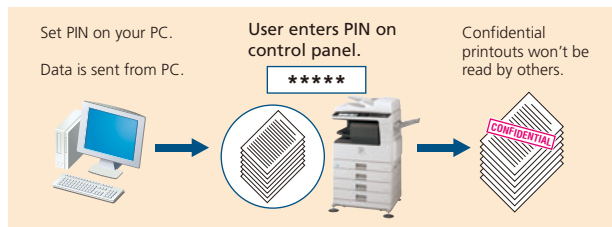The data generated for each job is automatically erased once that job is finished

IP/MAC Address Filtering

The MX-M310N/M260N's network interface card provides highly secure operation by restricting access to the MX-M310N/M260N on your office network. Only PCs that have either their **IP address** or **MAC (media access control) address** registered are allowed to use the MX-M310N/M260N. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use.

Print Hold and Confidential Print

To keep others from seeing confidential documents as they are being printed out, the MX-M310N/M260N's **Print Hold** function stores print data in its memory and withholds output until the user executes a print command from the control panel. For added security, the **Confidential Print** function requires the user to enter in a PIN (personal identification number) at the machine before printing can begin.

Set PIN on your PC.

Data is sent from PC.

User enters PIN on control panel.

*****

Confidential printouts won't be read by others.

CONFIDENTIAL

Auditing Mode

An auditing mode requires users to enter a five-digit PIN code to gain access to the control panel. This feature also restricts users from printing to the MX-M310N/M260N.

User Authentication for Network Scanning

To prevent unauthorised use of network scanning, the MX-M310N/M260N supports user authentication, which requires users to log in to the machine before performing any network scanning operations.

Secure Sockets Layer

SSL (secure sockets layer) enables the encryption of data communications to prevent data leakage through the network when printing via IPP or browsing secure Web pages (HTTPS).
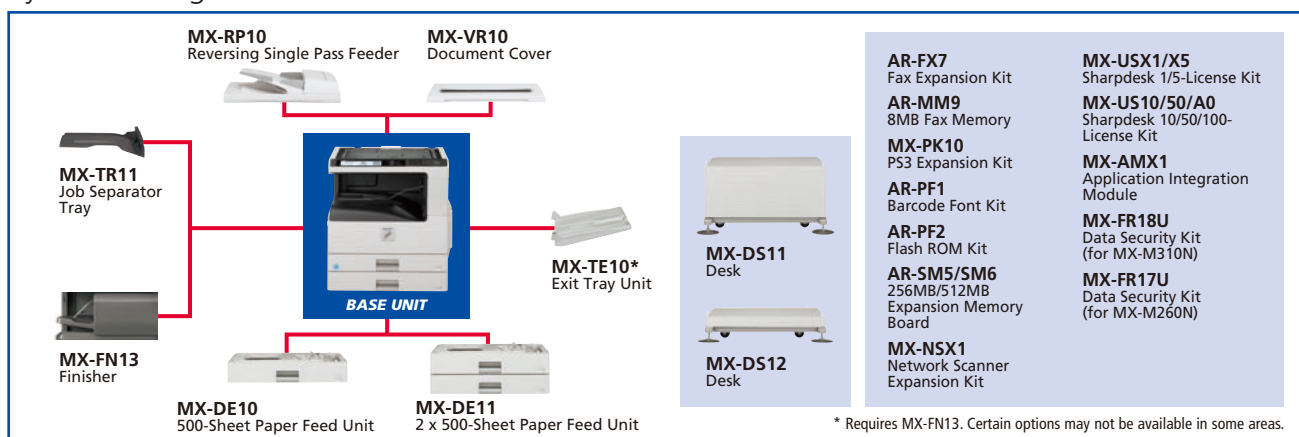
IPv6 and IPsec Support

The MX-M310N/M260N supports the IPv6 Internet protocol. An obligatory part of IPv6 is IPsec (IP Security), a set of protocols for securing Internet protocol (IP) communications. IPsec encrypts and authenticates traffic between specified parties, giving IPsec-compatible products an extremely high level of network security.

System Configuration

MX-RP10
Reversing Single Pass Feeder

MX-VR10
Document Cover

MX-TR11
Job Separator Tray

BASE UNIT

MX-TE10*
Exit Tray Unit

MX-FN13
Finisher

MX-DE10
500-Sheet Paper Feed Unit

MX-DE11
2 x 500-Sheet Paper Feed Unit

MX-DS11
Desk

MX-DS12
Desk

AR-FX7
Fax Expansion Kit

AR-MM9
8MB Fax Memory

MX-PK10
PS3 Expansion Kit

AR-PF1
Barcode Font Kit

AR-PF2
Flash ROM Kit

AR-SM5/SM6
256MB/512MB Expansion Memory Board

MX-NSX1
Network Scanner Expansion Kit

MX-USX1/X5
Sharpdesk 1/5-License Kit

MX-US10/50/A0
Sharpdesk 10/50/100-License Kit

MX-AMX1
Application Integration Module

MX-FR18U
Data Security Kit (for MX-M310N)

MX-FR17U
Data Security Kit (for MX-M260N)

* Requires MX-FN13. Certain options may not be available in some areas.

SPECIFICATIONS (tentative)

General

Type	Desktop
Engine speed	Max. 31/26 cpm/ppm (A4, 8 $^1/_2$" x 11")
Paper size	Max. A3 (11" x 17"), min. A5 (5 $^1/_2$" x 8 $^1/_2$")
Paper capacity	Standard: 1,100 sheets
(80 g/m^2)	(two 500-sheet trays and 100-sheet multi-bypass tray)
	Maximum: 2,100 sheets
Warm-up time*1	25/23 sec.
Memory	Standard: 32MB
	Maximum: 1,056MB
Power requirements	Rated local AC voltage ±10%, 50/60 Hz
Power consumption (max.)	1.45 kW
Dimensions (W x D x H)*2	623 x 628 x 653 mm (24 $^{17}/_{32}$" x 24 $^{23}/_{32}$" x 25 $^{45}/_{64}$")
Weight (approx.)*2	46 kg (100 lbs)
Features	Job build, pre-heat/auto power shut-off modes, toner save mode, user control (100 accounts)

Copier

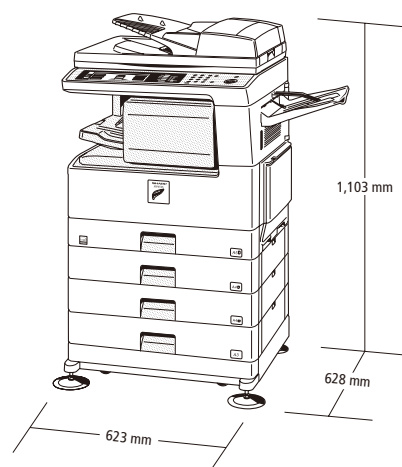|	
Original paper size	Max. A3 (11" x 17")
First copy time*3	4.5/4.8 sec.
Continuous copy	Max. 999 copies
Resolution	Scan: 400 x 600 dpi
	Print: 600 x 600 dpi
Gradation	Scan: 256 levels
	Print: 2 levels
Zoom range	25% to 400% (50% to 200% using RSPF) in 1% increments
Preset copy ratios	Metric: 10 ratios (5R/5E), inch: 8 ratios (4R/4E)
Features	Auto paper selection (mixed size feeding), auto magnification selection, paper type selection, auto tray switching, rotation copy, electronic sorting, margin shift, dual page copy, multi-shot (4-in-1, 2-in-1), cover insertion, pamphlet copy, 2-sided copy orientation change, XY zoom, B/W reverse, duplex copy, job programme, card shot, edge/centre erase, stream feeding

Network Printer

Resolution	600 x 600 dpi
Enhanced resolution	600 x 1,200 dpi equivalent with smoothing
Memory	Standard 64MB, expandable to max. 320MB
Interface	USB 2.0 (full speed), 10Base-T/100Base-TX
Supported OS*4	Windows® 2000/XP, Windows Server® 2003/2008, Windows Vista®, Mac OS 9.0 to 9.2.2, Mac OS X 10.2.8, 10.3.9, 10.4.11, 10.5 to 10.5.6
Network protocols*4	TCP/IP (IPv4, IPv6), IPX/SPX (NetWare), NetBEUI, EtherTalk (AppleTalk)
Printing protocols	LPR, Raw TCP (port 9100), POP3 (e-mail printing), HTTP, Novell Printserver application with NDS and Bindery, FTP for downloading print files, EtherTalk printing, IPP
PDL (emulation)	Standard: PCL 6/5e*5
	Option*4: PS3 emulation
Available fonts	80 fonts for PCL, 136 fonts for PS3 emulation
Features*6 *7	RIP Once/Print Many, job retention (print hold, sample print, confidential print), direct PDF/TIFF printing, e-mail printing, carbon copy print, duplex print, font/form download, pamphlet style, binding edge, N-up (2/4/6/8/9/16), paper/output tray selection, cover/transparency insertion, fit to page, watermarks, form overlay, barcode font compatibility, mirror image, printer administration utility and status monitor, IP/MAC address filtering, secure network communications (SSL and IPsec [LPD])

Network Scanner (optional MX-NSX1 and memory*8 required)

Scan method	TWAIN compliant (push out method)
Resolution	Optical: 400 dpi (setting range: 200, 300, 600 dpi)
	Output: 200, 300, 600 dpi
File formats	TIFF, PDF
Scanner utility	Sharpdesk
Scan destinations	Scan to e-mail, desktop, FTP server
Features	LDAP support, direct entry (address, subject, message), 200 one-touch addresses, group addresses, broadcasting, 2-sided scanning, meta data delivery (MX-AMX1)

Facsimile (optional AR-FX7 required)

Compression method	MH/MR/MMR/JBIG
Communication protocol	Super G3/G3
Transmission time	Less than 3 seconds*9
Modem speed	33,600 bps to 2,400 bps with automatic fallback
Transmission resolution	From Standard (203.2 x 97.8 dpi) to Super Fine (406.4 x 391 dpi)
Recording width	A3 to A5 (11" x 17" to 5 $^1/_2$" x 8 $^1/_2$")
Memory	2MB flash memory
	Optional memory: 8MB (AR-MM9)
Grey scale levels	Equivalent to 256 levels
Features	Duplex transmission/reception, quick on-line transmission, F-Code compatibility (confidential, relay broadcast), error correction mode, 500 one-touch dials, 8 job programmes, group dials (up to 50 groups and 200 destinations), polling, broadcasting number registration, memory transmission/reception, auto reduction (transmission/reception), rotation transmission/reception, timer transmission, anti-junk fax, long original transmission (max. 1,000 mm)*10, dual page scan, PC-Fax transmission*11, activity report

* 1 : May vary depending on operating conditions and environment.
* 2 : Dimensions and weight do not include document cover or RSPF.
* 3 : When feeding A4 (8 $^1/_2$" x 11") sheets from top paper tray, MFP in fully ready condition. May vary depending on operating conditions and environment.
* 4 : Optional MX-PK10 required for Mac OS, EtherTalk, and PS3.
* 5 : PCL 5e does not support Windows XP 64-bit, Windows Server 64-bit, Windows Vista 64-bit, and Windows Server 2008.
* 6 : Some features require option(s).
* 7 : Some features are not available according to the printer driver used.
* 8 : 128MB or more additional memory.
* 9 : Based on Sharp's standard chart with approx. 700 characters (A4 or 8 $^1/_2$" x 11" long-edge feeding) at standard resolution in Super G3 mode, 33,600 bps, JBIG compression.
*10 : Not available in Super Fine mode.
*11 : For Windows environments only.

- Design and specifications are subject to change without prior notice.
- Windows, Windows Server, and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other brand names and product names may be trademarks or registered trademarks of their respective owners.
- The Energy Star logo is a certification mark and may only be used to certify products that have been determined to meet the Energy Star programme requirements. Energy Star is a US registered mark. The Energy Star guidelines apply to products only in the US, Europe, Australia, New Zealand, and Japan.

1,103 mm
628 mm
623 mm

Shown with options.

SHARP

PRINTED WITH SOY INK™

Printed with VOC (volatile organic compound)-free ink