Print with confidence

SAMSUNG

CLX-8640ND / CLX-8650ND
A4 Colour Multifunctional Printers

For Every Business

SAMSUNG

MultiXpress C8640ND

Color Xpression

XOA READY

A4 to A3 · Mono to Colour · Printers to MFPs

www.samsung.com/printer

The Samsung CLX-8640ND and CLX-8650ND deliver incredible performance, reliability and outstanding value for money.

Our Dual Core technology offers high productivity and allows you to enjoy impressive cost savings thanks to low power consumption. You'll discover everything about these devices has been designed to make it robustly reliable and amazingly cost effective.

Twice the power delivers more performance

For those big print or copy jobs, You'll find the CLX-8640ND and CLX-8650ND is up the task with power to spare.

With a fully integrated Samsung 1GHz Dual Core processor, office productivity increases dramatically with fast printing and scanning capabilities.
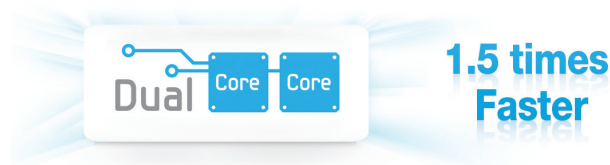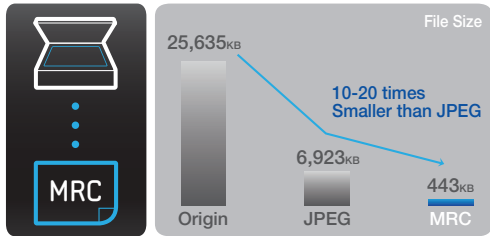

Figure 1. Dual Core processor boosts speeds

High compression of scanned files

Samsung's MRC (Mixed Raster Content) technology compresses the scanned file size significantly without any reduction in quality. So you can save storage space and time.

* MRC (Mixed Raster Content) : extracted text and image for PDF format scan.
* Evaluation from internal test lab.

Figure 2. Example of MRC compression

Enjoy quality printouts

Samsung's unique ReCP (Rendering Engine for Clean Page) technology and real 1200x1200 dpi improves the overall quality and vibrancy of your colour printing, ensuring every printout looks perfect. It automatically sharpens the focus of both graphics and text, while solid objects are overlapped to eliminate white gaps.
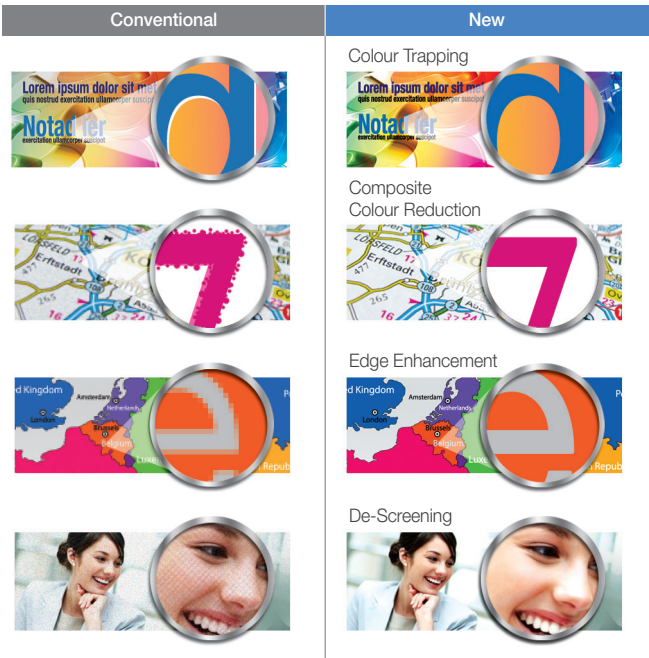

Figure 5. Example of ReCP technology

Polymerized toner

Our newly developed polymerized toner has smaller, more uniform particles than conventional toner, giving your output crisper lines and more vivid colours. Additionally, its higher wax content improves image gloss and enhances durability.

Figure 4. Example of Samsung polymerized toner

Every document your business produces needs to be the very best, every time. Innovative technology, amazing dpi and a revolutionary new toner mean that you're always guaranteed consistently high quality results, everytime.

Experience image quality like never before

An extraordinary resolution of 1200 x 1200 dpi brings you vivid results directly from the display screen. The CLX-8640ND and CLX-8650ND offer superior image quality, allowing you to create high glossy, professional documents.

Figure 3. Example of improve image quality

Save time with reliability that won't let you down

Busy businesses can't afford to waste time with unreliable products. That's why our innovative anti-jam technology stops stress-causing device blocks by using a roller that provides a backward friction during the paper pickup process. Our newly developed polymerized toner has smaller, more uniform particles than conventional toner, giving your output crisper lines and more vivid colours. Additionally, its higher wax content improves image gloss and enhances durability.

Cut job times with fast scanning and printing

Scanning itself takes less time too. You can now enjoy the fastest duplex scan speed of any multifunctional device – an impressive 70ipm. And forget waiting forever for printouts.

The CLX-8640ND and CLX-8650ND are simple and intuitive to use, thanks to our functional yet ergonomic design principles.
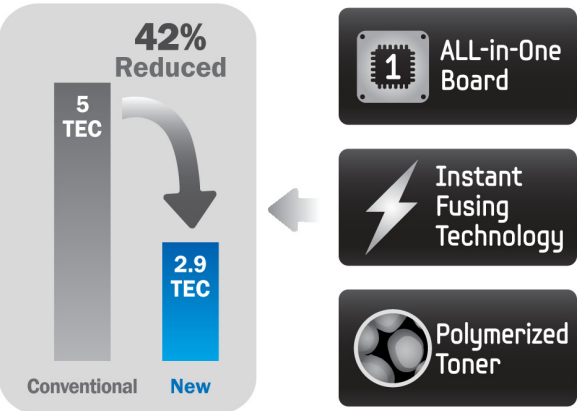
Intuitive, Smart UI

For maximum control and visibility, the CLX-8640ND and CLX-8650ND features a 7" colour touch panel with smooth sliding and scrolling screen. Thanks to the intuitive, smart user interface, you can manage and control even the most complex jobs quickly and easily.

1. User menu customisation (up to 40 shortcut icons)
   Save time with those jobs you might do regularly.
2. Smart search
   Find specific functions quickly by just typing in the keyword.
3. Quick copy
   Access all copy functions at a glance.
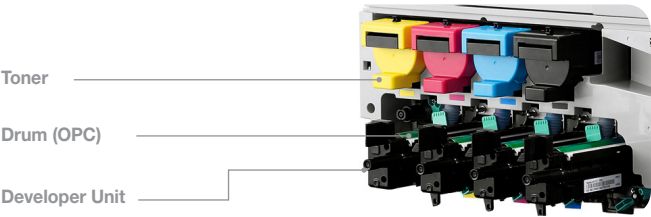
Low power consumption

With its ingenious features, overall energy consumption is kept low by minimising power requirements. In fact, compared to a conventional board it reduces TEC (Typical Electricity Consumption) by up to 42% (CLX-8640ND). Meanwhile, Samsung Instant Fusing System (IFS) technology helps you print and copy faster, use less energy, and reduce energy costs.

42% Reduced

5 TEC

2.9 TEC

Conventional   New

- ALL-in-One Board
- Instant Fusing Technology
- Polymerized Toner

* CLX-8640ND
* Evaluation from internal test lab.

Separated, interchangeable consumables

With separated Toner, OPC and a Developer unit, your company can reduce maintenance costs. Also, because the OPC (Organic Photo Conductor) Drums are common for all colours, they are inter-changeable, reducing your cost in terms of inventory control.

Toner

Drum (OPC)

Developer Unit

Control costs the Eco way

Every business sees the need to cut costs wherever it can. You can save paper and energy with the Eco button. All it takes is one push and you can print more onto every page, including 2-up, 4-up and duplex, and also save more toner with automatic blank pages skipping.

ECO

CO$_2$	73% ↓
Energy	50% ↓
Paper	75% ↓

With the Samsung Easy-Eco Driver you'll be able to adjust colour quality and other settings to meet your requirements to help achieve more economical and efficient printing.

Figure 5. Eco button

Remove Images

Conversion bitmap to sketch

Figure 6. Easy Eco Driver preview and adjustments

Samsung Eco-Driver earned the 2012 "Outstanding Achievement" Award from Buyers Lab, Inc.

Keeping a secure office environment

Data security is a big concern with business today. The Samsung Security Framework is standard and offers a secure network, that helps prevent unauthorised access to confidential information.

High level of security

Convenience

Cost effectiveness

Secure user	- Authentication - Authorisation - Accounting
Secure network	- SSL/TLS - SNMPv3 - IPSec (IPv4, IPv6) - 802.1x (with EAP) - Protocol/Port management - IP/MAC filtering
Secure document	- Secure print - Secure scan - Secure fax - Document tagging (watermarks, stamps)
Secure data	- Encryption - HDD image overwrite
Secure management	- System logs - System back-up - E-mail notification

XOA (Open Architecture Platform)

XOA

Based on open standards, XOA allows print solution vendors to create embedded applications that enhance the use of the device's capabilities to improve business processes.

- Intelligent integration across a wide range of network services
- Easy integration and minimal downtime during installation
- A flexible solution for continuous productivity
- Maximized extensibility and customise ability

Smart Samsung solution support

Samsung offers various solutions such as Device Management, Document Solutions, Security Solutions as well as Mobile Solutions to meet modern office solution requirements.

Device Management
Easy to install and manage, Samsung SyncThru™ Admin manages networked, single and multifunction print devices. SyncThru™ Admin 6 is an award winning fleet management software tool that provides increased efficiency and productivity by allowing users to manage, monitor and diagnose multiple printing devices remotely.

Secure Printing
A network poses the risk of unauthorised access to retained information on the device, and network penetration. Samsung address these threats with features like PIN printing HDD and Data Encryption. Samsung is committed to delivering "Common Criteria" (CC) certified products. CC is a Certification for Secure IT adopted by government and military organisations.

Document Capture
Customers can effectively streamline their document related processes through Samsung's SmarThru™ workflow. This dramatically improves office work efficiency by capturing hardcopy documents and organising them digitally to ensure delivery to the next stage of a business process, or into intelligent archive storage for simplified retrieval whenever necessary.

Billing and Job Accounting
Samsung's Job Accounting feature is designed to provide administrators with in-depth information on printing, scanning, copying and faxing performed by each user on any device. This enables any business to set up individual and group accounts for printing, ensuring that user, device and output activity can be monitored and reported on for any time period.

Highlights

- 1GHz Dual Core Processor provides powerful performance
- ReCP Technology improves the overall print / copy / scan quality
- 7" Colour Touch LCD offers flexibility and simplicity
- Enhanced design maximizes office efficiency
- Eco-features reduces energy costs
- XOA expands functionality easily and affordably
- Advanced security features, as standard, enhances office data protection
- Integrated secure workflow with Samsung Solutions

Configurations & options

DADF (Standard)
- Duplex Automatic Document Feeder
- 100-Sheet capacity
- 2-sided Document Scanning

2 Bin Staple Finisher
CLX-FIN25S/SEE
- Corner stapling up to 50 sheets

Triple Cassette Feeder
CLX-S8640T/SEE

520 Sheet Cassette & Cabinet
CLX-DSK20M/SEE

Fax Kit
CLX-FAX170/XEU

FDI kit
CLX-KIT10F/SEE

General specifications

Speed: Colour / B&W	CLX-8640ND: 38 ppm in A4 / CLX-8650ND: 48 ppm in A4
Processor	1 GHz Dual Core
Memory	1 GB DDR3 Memory
Display	7" Colour Touch Panel LCD (1,024 x 600)
Interface	USB 2.0 Device (1EA), USB 2.0 Host (2EA), Ethernet 10 / 100 / 1000 Base TX
Storage	Standard: 1GB / Maximum: 1GB
Duty Cycle	200,000 page monthly
Dimension	(W x D x H) 550 x 523 x 776mm (with DADF)
First Print Out Time	(From Ready Mode) Mono: 9 seconds / Colour: 11 seconds
Weight	70.4 Kg (with DADF & Consumables)
Network	TCP / IPv4, HTTP, SNMPv1 / v2c / v3
Protocols	LDAP, SMTP, SSL / TLS, IPSec, DNS, WINS, SLP, Bonjour, SSDP, DDNS, IPS, DHCP / BOOTP, IPv6, HTTPS, LDAPS.
Network Security	SSL / TLS, IP sec (IPv4, IPv6), SNMPv3, Protocol & Port Management, 802.1 x (with EAP), IP / MAC filtering
OS Compatibility	[Windows] 2000 / XP (32/64 bit) / 2003 (32/64 bit) / Vista (32/64 bit) / 2008/Win7 / 2008 R2 (64 only) [Linux] - RedHat™ Enterprise Linux WS 4,5 (32/64 bit) - Fedora 5, 6, 7, 8, 9, 10, 11, 12, 13 (32/64 bit) - SuSE Linux 10.1 (32 bit) - OpenSuSE™ 10.2 10.3, 11.0, 11.1, 11.2 (32/64 bit) - Mandriva 2007, 2008, 2009, 2009.1, 2010 (32/64 bit) - Ubuntu 6.06, 6.10, 7.04, 7.10, 8.04 8.10, 9.04, 9.10, 10.04 (32/64 bit) - SuSE Linux Enterprise Desktop 10, 11 (32/64 bit) - Debian 4.0, 5.0 (32/64 bit) [Mac] - Mac OS x 10.5 ~ 10.7
Power Consumption†	Max 1.6kW (Ready: <80W, Sleep : <1.5W)
TEC	Europe: AC 220-240V

Paper handling

Input Capacity & Types	Max: 2,180 sheets @ 80 g/m² (Std: 520 x 1 + 100 sheets MP @ 80 g/m² Option: 520 sheets x 3 @ 80 g/m²)
Output Capacity	Std: 500 sheets Center Output
Media Type	Plain Paper, Thin Paper, Bond, Punched, Pre-Printed, Recycled, Label, CardStock, Letterhead, Thick, Cotton, Coloured, Archive, Glossy
Media Weights	MP Tray: 60~ 175 g/m² (16 ~ 47 lb.) Tray1&2: 60 ~ 220 g/m² (16 ~ 59 lb.)
DADF Document Size	Letter, Legal, Oficio, Folio, A4, JIS B5, ISO B5, Executive, A5, Statement, Custom
DADF Capacity	100 sheets @ 80 g/m²
Envelope Capacity	10 sheets MP Tray

Copy specifications

First Copy Out Time (Mono/Colour)	CLX-8640ND: 38 ppm in A4 / CLX-8650ND: 48 ppm in A4
Resolution	Up to 600 x 600 dpi
Zoom Rate	25% ~ 400%
Multi Copy	Up to 9,999
Duplex Copy	Flatbed - 1 -> 1 Sided / - 1 -> 2 Sided (Output: Book, Calendar) DADF - 1 -> 1 Sided / - 1 -> 2 Sided (Output: Book, Calendar) - 2 -> 1 Sided (Output: Book, Calendar) / - 2 -> 2 Sided (Output: Book, Calendar)
Copy Features	Quick Copy, ID Copy, N-up Copy, Book Copy, Job Interrupt, etc
Other Copier Features	Original Type: Text, Text/Photo, Magazine, Photo, Copied Original, Map, Light Original. / Colour Setting: Auto Colour, Full Colour, B&W. / Image Modify : Book Centre Erase, Watermark / Copy, Automatic Background Suppression, Time & Date Stamp, ID Stamp

Print specifications

Resolution	High Quality: Real 1,200 x 1,200 dpi (Half Speed) / Normal: 2,400 x 600 dpi Effective / Best: 9,600 x 600 dpi Effective
Emulation	PCL5C, PCL6 (XL), Post Script Level 3, PDF 1.7+, XPS
Fonts	PCL: 93 scalable, 1 bitmap, OCR-A/B, PS: 136 scalable
Duplex	CLX-9201NA: 14ppm (without 2nd Exit) 20ppm (with 2nd Exit) / CLX-9251NA: 17ppm (without 2nd Exit) 25ppm (with 2nd Exit) / CLX-9301NA: 21ppm (without 2nd Exit) 30ppm (with 2nd Exit)
Network Operating System	[Windows] - Microsoft™ Windows 2000 / XP (32/64 bits) / 2003 (32/64 bits) / Vista (32/64 bits) / Win7 [Mac] - Mac OS 10.5 ~ 10.6 [Linux] - RedHat™ 8 ~ 9, Fedora Core 1 ~ 4 / Madrake 9.2 ~ 10.1, SuSE 8.2 ~ 9.2 [Novell] - Netware 5.x, 6.x (TCP / IP Only) [Others] - Unix (HP-UX, Solaris, SunOS, SCO)
Solutions	Web Admin Service / SmarThru™ Workflow (Optional) / SecuThru™ (Optional) / CounTru™ (Optional)
Open Platform	eXtended Open Architecture (XOA)

Scanner specifications

Speed	70 ipm (300 dpi / A4/Letter)
Compatibility	Network Twain
Scan File Formats	JPEG, PDF, PDF/A, PDF-Compact, PDF-Encryption, TIFF, XPS
Resolution (Optical/Enhanced)	600 x 600 dpi, 4,800 x 4,800 dpi (Default Setting: 300 dpi)
Method	Flatbed / DADF
Scan to Modes	Scan to Email (with LDAP support) / Scan to USB, Scan to PC / Scan to Server (FTP / SMB) / Scan to Shared Folder (HDD)

Security specifications

Secure Data: Standard Data Overwrite Security Method	Custom*	Select to determine the number of times the memory will be overwritten. The hard disk will be overwritten as many times as the number you select (up to 7 times).
HDD Encryption Method to protect against data theft.	Secure User	Authentication (Basic, Device, Application), Authorization, Group / Role based Authorization
	Secure Document	Secure Print, Secure Fax, Document Tagging (Watermark, Stamp) Secure PDF - PDF Encryption Document Tagging of Secure PDF, Digital Signature in PDF, Code Signing, Print Job Encryption
	Secure Management	Job Auditing, Job Operation, Security Event Logging, System Log Back Up, Email Notification

Fax specifications (optional)

Modem Speed	33,6kbps ~ 2,400bps with Automatic Speed Selection
Compatibility	ITU-T G3, Super G3
Resolution	203 x 98 dpi (Std), 203 x 196 dpi (Fin), 300 x 300 dpi (Super.Fine), 600 x 600 dpi (Ultra. Fine)
Resolution	203 x 98dpi (Std), 203 x 196dpi (Fin)), 300 x 300dpi (Super.Fine), 600 x 600dpi (Ultra. Fine)
Speed	1.5sec (Std), 4sec (Fine), Depends on Document (Super.Fine, Ultra.Fine)
Compression Method	MH / MR / MMR / JBIG
Auto Dialing	500 Locations Speed Dial, 500 Group Dial
Fax Functions	Speed Dial, Group Dial, On-hook Dial, Auto Redial, Caller ID, Secure Reception, Fax forwarding, etc.
Fax To Modes	Fax to SMB, Fax to Email, Fax to FTP

Paper input and finishing options

Double Cassette Feeder	
Input Capacity	520 Sheets
Media Weights	60 ~ 163 g/m² (16~59 lb.)

Inner Finisher	
Output Capacity	350 Sheets- (Main 300, Top 50) (A4 80 gsm)
Media Weights	60 ~ 220 g/m² (16~59 lb.)
Staple Capacity	50 sheets (under 90 gsm)

520 x 3 Triple Cassette Feeder	
Media Capacity	1560 Sheets (520 Sheets x 3)
Media Weights	60 ~ 163 g/m² (16~59 lb.)

Others	
520 Sheet Cassette & Cabinet (All in One), 520 x 3 Triple Cassette Feeder, 2 Bin Staple Finisher, Fax Kit, FDI Kit	

Consumables	
Black Toner Cartridge	20,000 pages (CLT-K659S/ELS)
Colour (Y/M/C) Toner Cartridges	20,000 pages (Yellow - CLT-C659S/ELS / Magenta - CLT-M659S/ELS / Yellow - CLT-Y659S/ELS)
Colour Drum	40,000 pages (CLT-R659/SEE)

† Typical Electricity Consumption (Energy Star Test Method). *Estimated Toner Yields @ 5% coverage. For best performance and yield, we recommend using genuine Samsung parts and consumables. *Specifications above are subject to change without prior notice.

To learn more about Samsung Print,
please visit: www.samsung.com/printer

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