

enc^ompass[®] Product Comparison Report

	Ricoh IM C4510	Xerox AltaLink C8045	Toshiba e-STUDIO4525ACG
MODEL INFORMATION			
Manufacturer	Ricoh	Xerox	Toshiba
Model	IM C4510	AltaLink C8045	e-STUDIO4525ACG
Product Type	Full-color copier, MF	Full-color copier, MF	Full-color printer, MF
Product Status	Current	Discontinued	Current
Introduction Date	05/01/2023	05/01/2017	07/01/2023
Discontinued Date	Info not avail	04/01/2024	Info not avail
Market Segment	4	4	4
OEM	Ricoh (Info not avail)	Fuji Xerox and Xerox (Info not avail)	Toshiba (Singapore)
Maximum Monthly Duty Cycle	N/A	200,000 impressions	210,000 black/105,000 color impressions
Recommended Monthly Volume	N/A	8,000 to 18,000 impressions	10,600 impressions
MSRP/Street Price	\$21,655.00 / None	\$20,754.00 / None	\$29,999.00 / None
Dimensions (HxWxD)	37.9" x 23.1" x 27.6"	45" x 25.2" x 28.9"	31" x 23" x 25.2"
Weight	222.2 lbs	321 lbs	172 lbs
GENERAL SPECIFICATIONS			
Control Panel	10.1" color touchscreen	10.1" color touchscreen	10.1" color touchscreen
Copy Speed (Ltr/Lgl/Ldgr)	45 cpm color/45 cpm black / Info not avail / Info not avail	45 cpm color/45 cpm black / Info not avail / Info not avail	45 cpm color/45 cpm black / 26 cpm color/26 cpm black / 22 cpm color/22 cpm black
First Copy Out Time	5.4 sec color/3.6 sec black	7.8 sec color/6.4 sec black	5.7 sec color/4.4 sec black
Warm-up Time	24 sec	92 sec	20 sec
Paper Sources (Std/Max)	Dual drawer	Four tray	Dual drawer
Standard Paper Capacity	550/550 sheets	520/520/867/1,133 sheets	550/550 sheets
Paper Weights	16 to 80 lbs	16-lb bond to 140-lb index	16-lb bond to 110-lb cover
Bypass/Paper Weights	100-sheet / 14 to 80 lbs	100-sheet / 16-lb bond to 110-lb cover	100-sheet / 14-lb bond to 110-lb cover
Maximum Paper Sources	6	6	6
Maximum Paper Capacity	4,700 sheets	5,140 sheets	5,200 sheets
Maximum Original Size	11.7 x 16.5	11.7 x 17	11 x 17
Output Size (Minimum/Maximum)	3.5 x 5.8 / 12.6 x 49.6	3.5 x 3.9 / 12.6 x 19	3.9 x 5.8 / 12 x 18
Copy Resolution	600 x 600 dpi	600 x 600 dpi	600 x 600 dpi
System Memory (Standard/Maximum)	4-GB RAM / 4-GB RAM, 256-GB SSD and 320-GB HD	8-GB RAM, 250-GB HD / 8-GB RAM, 250-GB HD	4-GB RAM, 640-GB SSD / 4-GB RAM, 640-GB SSD
Duplex	Auto (1:2,2:2,2:1)	Auto (1:2,2:2,2:1)	Auto (1:2,2:2,2:1)
Duplex Capacity/Paper Sizes	Info not avail / N/A Info not avail	Info not avail / N/A Info not avail	Info not avail / 5-1/2 x 8-1/2 to 11 x 17
Document Feeder	Std DSPF	Std DSPF	Opt RADF and DSPF
Document Feeder Capacity	220 orig	130 orig	100 orig, 300 orig
Paper Weights	14 to 68 lbs	16 to 32 lbs	9.3 to 41.8 lbs, 9.3 to 110 lbs
Finisher	Opt finisher	Opt finishers	Opt finishers
Tray/Stapling/Position(s)	250, 500, 1,000, 1,000, 3,000 / 50, 50, 50, 65 / 3, 3, 3, 3	2,000, 3,500, 2,000 / 50 / 2, 3	3,000, 250, 2,000, 250, 500, 100 / 65, 65, 50 / 3
Hard Drive	4-GB RAM / 4-GB RAM, 256-GB SSD and 320-GB HD	8-GB RAM, 250-GB HD / 8-GB RAM, 250-GB HD	4-GB RAM, 640-GB SSD / 4-GB RAM, 640-GB SSD

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Additional Features	Optional 2 x 550 sheets paper trays, LCT 2000 sheets paper trays, LCT 1500 sheets paper trays, 1,000-sheet Hybrid finisher, 1,000-sheet Booklet finisher, 3,000-sheet Finisher; 500-sheet Internal Finisher; 250-sheets Internal shift finisher, Stapleless internal finisher, Internal multi-fold unit, Internal shift tray, One-bin tray.	Opt high-capacity tandem tray module (867-sheet tray + 1,133-sheet tray); opt 2,000-sheet high capacity feeder (8.5" x 11"/A4); opt envelope tray (replaces tray 1) supports up to 60 envelopes; a dual offset catch tray (250 sheets each) and face up tray (100 sheets) is standard when finishers are not attached; opt Office Finisher LX has a 2,000-sheet stacker and offers opt hole punch and opt saddle-stitch booklet making; opt Business Ready finisher has a 3,000-sheet stacker plus 500-sheet top tray and includes hole punch; opt Business Ready Booklet Maker finisher has a 2,000-sheet stacker plus 500-sheet top tray and includes saddle stitching of up to 15 sheets (60 page booklets), hole punch and V-folding (5 sheets); opt C-fold/Z-fold unit available for the Business Ready finishers; opt 50-sheet convenience stapler with work surface	Opt RADF (reversing automatic document feeder) or DSPF (duplex single pass feeder); Opt Platen Cover, RADF and DSPF and DSPF with Double Feed Detection; opt paper feed-pedestal adds one 550-sheet drawer or opt envelope feeder cassette can be added to the paper-feed pedestal; opt external 2,000-sheet LCT handles letter/A4-sized paper; opt 2,000-sheet LCT handles letter/A4-sized paper; banner-sized paper can be handled via the bypass tray; 50-Sheet Inner Finisher, 3,000-Sheet Staple Finisher and 65-Sheet stapling, 65-Sheet Saddle-Stitch Finisher; 4-GB RAM, 640-GB SSD/4-GB RAM, 640-GB SSD (512GB FIPS140-2 std); 12" x 47.24" Banner paper size

MULTIFUNCTION FEATURES

Copier	Std	Std	Std
Printer			
Standalone Printer	Std	Std	Std
Network Printer	Std	Std	Std
Scanner	Std	Std	Std
Fax	Opt	Opt	Opt
Internet Fax	N/A	Std	Opt
Network Fax	N/A	Std	Opt
PC Fax	N/A	No	Opt

PRINTER SPECIFICATIONS

Speed	45 ppm color/45 ppm black	45 ppm color/45 ppm black	45 ppm color/45 ppm black
Maximum Print Area	Info not avail	Info not avail	Info not avail
Print Resolution	1200 x 1200 dpi	N/A	1200 x 1200 dpi
Paper Type	3.5 x 5.8 / 12.6 x 49.6	3.5 x 3.9 / 12.6 x 19	3.9 x 5.8 / 12 x 18
Std/Max Printer Memory	Info not avail	Info not avail	Info not avail
Standard Controller	Ricoh N/A	Xerox ConnectKey	Toshiba e-BRIDGE Next
Processor/Bits/MHz	Intel Apollo Lake / N/A / 1.6 GHZ	Quad core / N/A / 1.91 GHz	Intel E3930 Dual Core / N/A / 1.3 GHz
PDL/PCL	PCL 5c/6, PostScript 3, PDF, opt Adobe PostScript 3, opt IPDS	PCL 5c/6, Adobe PostScript 3, opt XPS	PCL 5e/c/6/XL, PDF, PostScript 3, XPS
Optional Controller 1	N/A	EFI / Fiery (FS150)	N/A
Processor/Bits/MHz	N/A	Intel Pentium dual core G850 / N/A / 2.9 GHz	N/A
PDL/PCL	N/A	Adobe PostScript 3	N/A
Optional Controller 2	N/A	EFI / Fiery EX-c C8000 (FS200)	N/A
Processor/Bits/MHz	N/A	AMD GX-424CC Quad Core / N/A / 2.4 GHz	N/A
PDL/PCL	N/A	PCL 5/6. Adobe PostScript 3	N/A
Controller Features	Optional genuine Adobe PostScript, Adobe PDF direct print, PictBridge	Direct printing from USB drives support collation, stapling and hole punch; configuration cloning; earth smart driver settings; job identification; booklet creation; store and recall driver settings; bi-directional real-time status; scaling; job monitoring; Xerox custom color by words; banner printing; supports Xerox Global Print Driver, Mobile Express and Pull Print Drivers; opt Fiery network server features Fiery FS150 software, 1-GB RAM, 500-GB HD; opt EX-c C8000 Print Server features FS200 software, 2-GB RAM, 500-GB HD	4GB RAM / 128GB SSD std. + 512GB FIPS 140-2 SSD

SCANNER SPECIFICATIONS

Connection Type	Info not avail	Info not avail	Info not avail
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	Ricoh IM C4510	Xerox AltaLink C8045	Toshiba e-STUDIO4525ACG
Technology/Speed	N/A / 150 ipm color, 150 ipm black	CCD / 80 ipm color, 80 ipm black	CCD / N/A
Maximum Resolution	1200 x 1200 dpi	600 x 600 dpi	600 x 600 dpi
TWAIN Compatible	N/A	Yes	Yes
Scan Destinations			
E-mail	Yes	Yes	Yes
I-fax	N/A	Yes	Yes
FTP	Yes	Yes	Yes
SMB	N/A	Yes	Yes
HDD	Yes	Yes	Yes
URL	Yes	Yes	Yes
LDAP Support	Yes	Yes	Yes
File Formats	JPEG, PDF, PDF/A, compact PDF, encrypted PDF, searchable PDF, TIFF	JPEG, PDF, PDF/A, encrypted/password protected PDF, linearized PDF/PDF/A, searchable PDF, TIFF, XPS	DOCX, JPEG, PDF, PDF/A, searchable PDF, Slim PDF, PPTX, TIFF, XLSX, XPS
Scanner Features	Info not avail	Single touch scan buttons (up to 10); bit depth of 24-bit color/8-bit grayscale/1-bit black; encrypted scan to email; scan to mailbox, network folder; 250 scan templates (CentreWare IS scan templates can be shared via device cloning); scan build job; mixed sized originals; reduction/enlargement; compression quality/file size control; auto background and shadow suppression; scan speed based on letter/A4 paper using the document feeder	Scan to Searchable PDF, Secure PDF, DOCX, PPTX, XLSX

SECURITY SPECIFICATIONS

Network User Authentication	Info not avail	Yes	Yes
IP Address Filtering	Yes	Yes	Yes
MAC Address Filtering	Info not avail	Info not avail	Yes
HDD Overwrite	Opt	Std	N/A
Number of Overwrites	Info not avail	3	N/A
HDD Encryption	Opt	Std	Std
Encrypted Secure Print	Info not avail	Yes	Yes
Encrypted PDF Mode (Encrypted Scanning)	Yes	Std	Std
IPsec	Info not avail	Yes	Opt
Secure Sockets Layer (SSL)	Info not avail	Yes	Yes
SNMPv3	Info not avail	Yes	Yes
Transport Layer Security (TLS)	Info not avail	Yes	Yes
Secure Print	Info not avail	Yes	Yes
Security Features	Info not avail	Immediate and on demand image overwrite; AES 256-bit encryption (FIPS 140-2 compliant); SHA-256 Hash message authentication; fax security; encrypted password protected PDF; encrypted scan to email; McAfee embedded security; McAfee ePolicy (ePO) compatible; opt McAfee Integrity Control; opt smart card enablement (CAC/PIV/.NET); port disablement including USB ports; IPv6, HTTPs, 802.1X support; audit log; Common Criteria Certified; user permissions; bar code reader support	TPM 2.0, Antimalware std. 512GB FIPS 140-2 SSD Std on top of 128GB Encrypted SSD

FAX SPECIFICATIONS

Scanner Technology	Info not avail	Info not avail	Info not avail
Compression Method	MH/MR/MMR/JBIG	MH/MMR	MH/MR/MMR/JBIG
Min/Max Orig Size (WxL)	Info not avail	Info not avail	Info not avail
Max Paper/Print Width	Info not avail	Info not avail	Info not avail
Effective Scanning Width	Info not avail	Info not avail	Info not avail
Dual Lines	N/A	Opt	Opt

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Speed Dial	Info not avail	Info not avail	Info not avail
Fax Features	Three seconds per page transmission speed	Opt walkup fax (one-line and two-line options), Internet fax, LAN fax; print two-sided and/or staple incoming documents; build job; 200 password-protected mailboxes; junk fax prevention; fax forward to email or SMB; auto send; delay start	Fax Over IP Solutions including Xmedius
CONNECTIVITY			
Operating System Support	Win Server 2012, 8.1, 10, Server 2016, Server 2019, Server 2022, Mac OS X v10.15+, SAP, UNIX	Win XP, Server 2003, Vista, Server 2008, 7, Server 2012, 8, 8.1, 10, Mac OS 10.8-10.11, Citrix, Linux, UNIX, Novell	Win Server 2012, 8.1, 10, Server 2016, Server 2019, 11, Server 2022, Mac OS X 10.10-10.15, 12, Linux, UNIX
USB Interface	Std 2.0, std (host)	Std 2.0, std 2.0 (host)	Std 2.0, std 2.0 (host)
PC Fax/Print/Scan	Info not avail	Info not avail	Info not avail
Network Interface	Std Ethernet, opt wireless	Std Ethernet, opt wireless	Std Ethernet, opt wireless
Interface Type	10/100/1000BaseTX, 802.11a/b/g/n/ac	10/100/1000BaseTX, 802.11b/g/n	10/100/1000BaseT, 802.11b/g/n, Bluetooth
LAN Fax/Print/Scan	Info not avail	Info not avail	Info not avail
Networks Supported			
NetWare	Info not avail	Info not avail	Info not avail
Windows NT	Info not avail	Info not avail	Info not avail
AppleTalk	Info not avail	Info not avail	Info not avail
UNIX	Info not avail	Info not avail	Info not avail
AS/400	Info not avail	Info not avail	Info not avail
Other	Info not avail	Info not avail	Info not avail
Embedded Software Platform	N/A	Extensible Interface Platform (EIP)	N/A
POWER AND ENERGY			
Power Requirements	120-127 V, Amps not avail	110-127 V, 15 A	120 V, 12 A
Energy Star Compliant	Yes	Yes	Yes
Energy Consumption			
Power Off	Info not avail	Info not avail	Info not avail
Power Save Mode	0.3W	3.78W	Info not avail
Ready Mode	47.2W	70.9W	Info not avail
Maximum Consumption	< 1584W	Info not avail	1500W
Typical Electrical Consumption (TEC value)	0.45kWh	0.69kWh	0.57kWh
Operating Noise Level	N/A	68.3 dB	74.5 dB
Dedicated Outlet	Not required	Recommended	Not required
TONER			
Mono Toner (OEM)			
Part Number	Not applicable	006R01697	Not applicable
Yield (per cartridge)	Not applicable	26,000	Not applicable
Coverage (per cartridge)	Not applicable	5%	Not applicable
Color Toner (OEM)			
Part Number	Not applicable	006R01698, 006R01699, 006R01700	Not applicable
Yield (per cartridge)	Not applicable	15,000	Not applicable
Coverage (per cartridge)	Not applicable	5%	Not applicable
Mono Toner (NON-OEM)			
Part Number	Not applicable	Not applicable	Not applicable
Yield (per cartridge)	Not applicable	Not applicable	Not applicable
Coverage (per cartridge)	Not applicable	Not applicable	Not applicable
Color Toner (NON-OEM)			
Part Number	Not applicable	Not applicable	Not applicable
Yield (per cartridge)	Not applicable	Not applicable	Not applicable
Coverage (per cartridge)	Not applicable	Not applicable	Not applicable