

Features	Sharp Standard Features		Optional Data Security Kit (DSK) MX-FR51U (for MX-3050N/3550N/4050N/5050N/6050N) MX-FR52U (for MX-3060N/3560N/4060N/ 3070N/3570N/4070N/5070N/6070N)	
	Standard Features	Standard Security Mode	DSK Standard Features	Advanced DSK Mode (Certification target October 2017)
Data Security				
Trusted Platform Module (TPM)	No	No	Yes	Yes
Data overwrite method (HDD)	No	0-FF/Random Number/ DoD 5220.22-M	0-FF/Random Number/ DoD 5220.22-M	0-FF/Random Number/ DoD 5220.22-M
Data overwrite method (Flash, SSD)	No	0	0	0
Data overwrite after job completion (HDD)	No	Up to 10 times overwrite	Up to 10 times overwrite	Up to 10 times overwrite
Data overwrite after job completion (SSD)	No	1 time overwrite	1 time overwrite	1 time overwrite
Data overwrite on demand	No	Yes	Yes	Yes
Clear all memory	No	No	Yes	Yes
Clear all data in job status jobs completed list	No	No	Yes	Yes
Clear document filing data	No	No	Yes	Yes
Clear address book/registered data	No	No	Yes	Yes
Auto data deletion after job	No	Yes	Yes	Yes
Auto clear at power on	No	No	Yes	Yes
End of Lease feature (Clear all memory and a confirmation report)	Yes ("0" value overwrite)	Yes (Random # overwrite)	Yes (Random # overwrite)	Yes (Random # overwrite)
Data encryption (AES 256 bit)	No	Yes (ECB mode)	Yes (ECB mode)	Yes (CBC mode)
Encrypted PDF	Yes	Yes	Yes	Yes
Document filing: (quick folder, batch print, store/backup document filing data)	Yes	Yes	Yes	No
Timed deletion of document filing data	Yes	Yes	Yes	Yes
Operational lock for mis-entry of document filing password	No	Yes	Yes	Yes
Document filing confidential mode	No	Yes	Yes	Always on
USB host/device feature (except firmware update)	Yes	Yes	Yes	No
Public NAS feature	Yes	Yes	Yes	No
Registering or editing entries on address book by user	Yes	Yes	Yes	No
Other users' job info display prohibited in job status	Yes	Yes	Yes	Yes
Network and Communication Security				
Network communication protection: HTTPS, IPsec & TLS	Yes	Yes	Yes	HTTPS & TLS Always on
Network communication protection: Wireless LAN	Yes	Yes	Yes	Wireless not allowed
Kerberos	Yes	Yes	Yes	Yes
S/MIME encryption	Yes	Yes	Yes	Yes
IP address filtering	Yes	Yes	Yes	Yes
Mac address filtering	Yes	Yes	Yes	Yes
Port management (enable and disable ports)	Yes	Yes	Yes	Yes
SNMPv3 Support – SHA1, AES 128bit	Yes	Yes	Yes	Yes (SNMPv1 not allowed)
Device certificates	Yes	Yes	Yes	Yes
Cross-Site Request Forgery (CSRF) protection / denial of service	Yes	Yes	Yes	Yes
IEEE802.1X™ authentication	Yes	Yes	Yes	Yes
IPP over SSL	Yes	Yes	Yes	Always on
Network communications	Yes	Yes	Yes	No
Network communication not using SSL (including using printer drivers)	Yes	Yes	Yes	No
Wireless LAN	Yes	Yes	Yes	No
Web browsing	Yes	Yes	Yes	No
E-mail alert/status	Yes	Yes	Yes	No
FSS	Yes	Yes	Yes	No
Remote operation	Yes	Yes	Yes	No
Public folder/NAS, cloud connect, job log/syslog/ audit log export, storage backup, device cloning	Yes	Yes	Yes	No

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Authentication and Access Control				
User authentication (Local / LDAP / Active Directory / Kerberos)	Yes	Yes	Yes	HTTPS & TLS Always on
ID card authentication	Yes	Yes	Yes	ID card not allowed
NTLM V2 authentication on LDAP	Yes	Yes	Yes	Yes
NTLM V2 authentication on SMB	Yes	Yes	Yes	Not allowed
Print policy authentication	Yes	Yes	Yes	Yes
Access control: asset function and destinations	Yes	Yes	Yes	Always on
Password protected admin access to device home page	Yes	Yes	Yes	Always on
Password length and requirements	User 0-255 Admin 5-255	User 0-255 Admin 5-255	User 0-255 Admin 5-255	User/Admin N-255 (N: 5 to 32; Admin specifyable) Character: 52 letters, 10 numbers, 10 specified symbols
Protection of admin password (when logged in via FTP)	No	Yes	Always on	Always on
Protection of file/folder password	No	Yes	Always on	Always on
User Lockout	Yes*	Yes*	Always on	Always on
Print Security				
Printer job authentication	Yes	Yes	Yes	Always on
PIN number/password print release	Yes	Yes	Yes	Always on
Server-less print release	Yes	Yes	Yes	No
USB Printing (when it is allowed)	Yes	Yes	Yes	No
Disabling list print	No	No	Yes	Yes
Disabling document filing	No	No	Yes	Yes
Disabling print jobs other than print hold job	Yes	Yes	Yes	Always on
Disabling job status jobs completed list display	No	No	Yes	Yes
Printing of document control pattern	No	No	Yes	Yes
Job stop when document control pattern is detected	No	No	Yes	Yes
Tandem print	Yes	Yes	Yes	No
Print and send	Yes	Yes	Yes	No
FTP/Web/Email, push print	Yes	Yes	Yes	No
Mobile print	Yes	Yes	Yes	No
SMB storage pull printing	Yes	Yes	Yes	No
USB storage pull printing	Yes	Yes	Yes	No
Print release	Yes	Yes	Yes	No
WSD print support	Yes	Yes	Yes	Yes
Print job force retention	Yes	Yes	Yes	Yes
Mobile and Cloud Features				
Cloud Connect (OneDrive®, SharePoint®, Online, Google Drive™)	Yes	Yes	Yes	No
Email Connect (Exchange Server, Gmail™)	Yes	Yes	Yes	No
Mobile Printing (AirPrint®, Android™, Mopria™, Sharpdesk®, Mobile, Google Cloud Print™)	Yes	Yes	Yes	No
Scan Features and Sharp OSA® Applications				
Direct domain entry restriction	Yes	Yes	Yes	Yes
Sharp OSA: ACM & EAM External Application	Yes	Yes	Yes	No
Scan to shared folders	Yes	Yes	Yes	No
Scan to USB	Yes	Yes	Yes	No
Scan to email	Yes	Yes	Yes	Yes with S/MIME
Scan to FTP	Yes	Yes	Yes	Yes with SSL
Scan to email for destinations where S/MIME encryption are not available	Yes	Yes	Yes	No
Scan to SMB	Yes	Yes	Yes	No
Scan to USB Storage	Yes	Yes	Yes	No
Remote PC Scan	Yes	Yes	Yes	No
Sharpdesk Mobile	Yes	Yes	Yes	No
Network Scanner Tool	Yes	Yes	Yes	No
Document Filing - Access to Quick Folder	Yes	Yes	Yes	No
Document Filing - Data backup / Export	Yes	Yes	Yes	No
FASEC1 Compliance Setting	Yes	Yes	Yes	Yes

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Fax Features				
Confidential fax (with fax option)	Yes	Yes	Yes	No
Segregated fax line from network connection (with fax option)	Yes	Yes	Yes	Yes
Prevention of junk fax (with fax option)	Yes	Yes	Yes	Yes
Fax forwarding	Yes	Yes	Yes	No
Fax polling	Yes	Yes	Yes	Receiving only
Internet fax	Yes	Yes	Yes	No
Programmable fax	Yes	Yes	Yes	No
Authority group to access received fax (only admin and group members can release held faxes)	Yes	Yes	Yes	Yes
Hold Fax Job	Yes	Yes	Yes	Yes
Tandem copy	Yes	Yes	Yes	No
Copy & send	Yes	Yes	Yes	No
Forward received data	Yes	Yes	Yes	No
Original Print on Send Error Report	Yes	Yes	Yes	No
Transaction report/Activity report	Yes	Yes	Yes	No
Polling (send)	Yes	Yes	Yes	No
PC-fax	Yes	Yes	Yes	No
Internet fax (incl. Direct SMTP)	Yes	Yes	Yes	No
F-code transmission	Yes	Yes	Yes	No
F-code memory box	Yes	Yes	Yes	No
Job Log, Syslog and Audit Log				
Job Log	Yes	Yes	Yes	No
Syslog (MFP system log) with RFC 5424/3164 Standard Syslog Protocol*	Yes	Yes	Yes	No
Audit Log** with RFC 5424/3164 Standard Syslog Protocol	Yes*	Yes*	Yes	Always on
Audit Log export	Yes	Yes	Yes	No
Storage backup	Yes	Yes	Yes	No
Inspection log	No	No	Yes	Yes
Service Features				
Display Firmware Version	Yes	Yes	Yes	Yes
Service login	Yes	Yes	Yes	Yes - require Admin authorisation
Firmware self-diagnostic and validation at power on	No	No	No	Yes
Firmware Signature: Digital Signature	No	No	Yes	Required
Firmware Signature: OP Panel Validation before update	No	No	No	Yes
SIM Password Protection	Yes	Yes	Yes	Always on
Admin / Service Password reset feature	Yes	Yes	Yes	No
MFP Self test at power ON	Yes	Yes	Yes	Yes
Firmware update from service webpage	Yes	Yes	Yes	No
FSS	Yes	Yes	Yes	No
TCO interface	Yes	Yes	Yes	No
Device cloning	Yes	Yes	Yes	No

*Available in winter 2017. ** Audit Log will include more granular events including authentication failure and firmware update

Welcome to Sharp

Sharp Information Systems Europe (SISE), a division of Sharp Electronics Europe, offers a comprehensive portfolio of award-winning document management and display solutions to help organisations transform the way they engage with information. Sharp's industry-leading MFPs and large production systems sit at the heart of integrated applications for digital transformation.

Data Security – The World's First and Highest Rated MFPs

Sharp was the world's first MFP manufacturer to achieve Common Criteria certification and was also the first to receive EAL 4 for a data security kit. Today, Sharp continues to be regarded as one of the industry's greatest security innovators with businesses and government agencies around the world depending on Sharp to keep their confidential data safe from unauthorised access.

Data security is a fundamental component for MFP and printer security. Sharp MFPs include standard and/or optional security features that protect data stored on the device or in transition.

Data Encryption

When data encryption is enabled on a Sharp MFP, Advanced Encryption Standard (AES) algorithm 256-bit method is used on communication and on the data before it is written to RAM and the hard disk or solid state drive.

Data Overwrite

Up to 10 times programmable overwrite is used to maximise the data erase efficiency on Sharp MFP HDD. The data is overwritten by random numbers. The data overwrite method can be customised to meet each organisation's security requirements or it can be set as it is specified in DoD 5220.22-M.

End of Lease

When the device is retired, select Sharp document systems offer standard End-of-Lease features to ensure that all confidential data is overwritten before the device leaves the facility.

What happens during End of Lease data erase?

The data is erased, "Now deleting (xx.x%)" will be displayed with a progress indicator. If DSK is installed or standard DSK feature is ON, number of times erased will also be displayed.