



Statement of Volatility

XEROX 700 Digital Color Press

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Statement of Volatility

XEROX 700 Digital Color Press

Notice

This document describes the locations, capacities and contents of volatile and non-volatile memory devices within the XEROX 700 Digital Color Press.

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Statement of Volatility

XEROX 700 Digital Color Press

Introduction

The XEROX 700 Digital Color Press is used to perform the following tasks:

Color Entry Production Printing and Scanning/Copying Color documents

The XEROX 700 Digital Color Press consists of:

Print Engine Controller Interface Platform

Print Engine

User Interface Controller

DADF / Scanner Module

Feeder Modules

Finishing Modules

These modules provide the basic configuration. Depending on what is purchased, the number and types of feeders and finishers can change.

The print engine can be as a copier or could be connected to one of the following:

EFI Fiery Print Server

CREO Print Server

Xerox FreeFlow® Print Server

In each of these cases, the Statement of Volatility or Security Whitepaper containing volatility information regarding these Print Servers will be contained in a separate document.

This document describes the amounts and types of memory contained in the device in an easy to read tabular format. To allow security issues to be addressed as needed, specific commentary has been included about job data and where Personally Identifiable Information (PII) can be found in the system.

The information contained in this document has been verified at the time the product is released for sale. Manufacturing process changes may require that memory amounts are increased but, the purpose or contents of the memory should not change.

General Memory Information

Volatile Memory

All volatile memory listed is cleared after power is removed (decay occurs generally within 20 seconds at room temperature).

All volatile memory listed is required for normal system operation and during service and diagnostic procedures.

Removal of any volatile memory will void the warranty.

Non-Volatile Memory

All non-volatile memory listed is required for normal system operation and during service and diagnostic procedures.


Removal of any non-volatile memory will void the warranty.

None of the non-volatile memory in the system can be accessed by accidental keystrokes.

Print Engine Controller Interface Platform Descriptions

Print Station Interface Platform Signature Block

This evaluation and summary was completed by:

Signature	
Printed Name	Michael A. Kelly
Job Title	Technical Program Manager
Job Function	Xerox 700 Technical Program Manager
Preparation Date	March 10, 2009

The data tables below detail the information regarding the volatile and non-volatile memory contained in the XEROX 700 Digital Color Press. The Print Engine Controller Interface Platform is a PC-type motherboard. It is equipped with a BIOS, main RAM and System memory.

Volatile Memory Description				
Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
DRAM	512K	N	System Memory (Font, OS, Boot Code)	Power Off System for 20sec
DRAM	32MB	N	Buffer Memory (Temporarily contains small Raster Image <128 scan lines)	Power Off System for 20sec
DRAM	128MB	N	Page Memory (Temporarily contains small Raster Image <128 scan lines)	Power Off System for 20sec
Registers	1MB	N	(Temporarily contains small Raster Image <128 scan lines)	Power Off System for 20sec

Non-Volatile Memory Description				
Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
EEPROM	1KB	N	Hardware Info system Performance info	Diagnostic
ROM	8MB	N	Font ROM	Erase when system software is upgraded or reinstalled
Flash ROM	32MB	N	System Memory (Font, OS, Boot Code)	Erase when system software is upgraded or reinstalled
Battery RAM	1MB	N	Hardware Info system Performance info, Billing Meters	Can be erase by Service

Hard Drive Information


The data table below details the hard disk information for the XEROX 700 Digital Color Press Print Engine Controller Interface Platform.

Hard Disk Description					
Complete this table if the device has media storage capability					
Drive / Partition (System, Image):	Removable Y / N	Size:	User Modifiable: Y / N	Function:	Process to Clear:
System	No*	80GB	N with normal operation	Operating System, Fonts, configuration file storage	Diagnostic Procedure in Service Mode OR Administrator Mode
Additional Information:					
This disk contains the Proprietary Operating System and stores executables, fonts, and settings files. During normal operation, job files do not remain stored on this disk.					

Print Engine (Marking Module) Descriptions

Print Engine (Marking Module) Signature Block

This evaluation and summary was completed by:

Signature	
Printed Name	Michael A. Kelly
Job Title	Technical Program Manager
Job Function	Xerox 700 Technical Program Manager
Preparation Date	March 10, 2009

The data tables below detail the information regarding the volatile and non-volatile memory contained in the XEROX 700 Digital Color Press print engine.

The Print Engine is powered by a custom motherboard (MCU), with multiple additional custom boards (IOT CPU, IOT CIS, IOT CIS Adaptor). Each can be equipped with a BIOS, main RAM and Non-Volatile memory, as described below. The remaining modules in the engine are run with integrated microcontrollers.


Volatile Memory Description				
Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
SDRAM Embedded in CPU	8KB	N	Executable code, Printer control data, May temporarily contain non-image job specific data – number of pages, finishing info	Power Off System for 20sec
SDRAM – Static RAM	512KB	N	Executable code, Printer control data, May temporarily contain non-image job specific data – number of pages, finishing info	Power Off System for 20sec
Additional Information: All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.				

Non-Volatile Memory Description				
Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
ROM embedded in CPU	256KB	via Diagnostics – Service SW reload	Contains OS, Boot Code, Machine Specific data – hardware ID, Performance info, usage counters	Erase when system software is upgraded or reinstalled
Flash ROM	2MB	via Diagnostics – Service SW reload	Contains OS, Boot Code, Machine Specific data – Hardware ID, Performance info, usage counters	Erase when system software is upgraded or reinstalled
RAM	512KB	via Diagnostics	Battery back-up for Machine Specific data – Hardware ID, Performance info, usage counters.	Diagnostic
Flash ROM (2x)	128KB	via Diagnostics	Contains OS, Boot Code, Machine Specific data – hardware ID, Performance info, usage counters	Diagnostics
Additional Information: All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.				

User Interface Controller Descriptions

User Interface Controller Signature Block

This evaluation and summary was completed by:

Signature	
Printed Name	Michael A. Kelly
Job Title	Technical Program Manager
Job Function	Xerox 700 Technical Program Manager
Preparation Date	March 10, 2009

The data tables below detail the information regarding the volatile and non-volatile memory contained in the XEROX 700 Digital Color Press print engine.

The User Interface Controller is powered by a custom motherboard (UI Controller).


Volatile Memory Description				
Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
SDRAM Embedded in CPU	1KB	N	Temporarily contains Machine specific data for real time control of the print engine. May temporarily contain non-image job specific data – number of pages, finishing info	Power Off System for 20sec
Additional Information: All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.				

Non-Volatile Memory Description				
Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
ROM embedded in CPU	24KB	N	Contains OS, Boot Code, Machine Specific data – Hardware ID, Performance info, usage counters	Cannot be modified outside manufacturing
EEPROM	1KB	N	Contains Machine Specific data – Hardware ID, Performance info, usage counters	Cannot be modified outside manufacturing
Additional Information: All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.				

Scanner Descriptions

Scanner Module Signature Block

This evaluation and summary was completed by:

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Printed Name	Michael A. Kelly
Job Title	Technical Program Manager
Job Function	Xerox 700 Technical Program Manager
Preparation Date	March 10, 2009

The data tables below detail the information regarding the volatile and non-volatile memory contained in the XEROX 700 Digital Color Press print engine.

The Scanner function is powered by multiple custom boards (DADF, IPS, IIT & DAIMAJIN). Each can be equipped with a BIOS, main RAM and Non-Volatile memory, as described below. The remaining modules in the module are run with integrated microcontrollers.


Volatile Memory Description				
Type (SRAM, DRAM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
SDRAM Embedded in CPU	24KB	N	Temporarily contains Machine specific data for real time control of the print engine. May temporarily contain non-image job specific data – number of pages, finishing info [DADF]	Power Off System for 20sec
SDRAM – Static RAM	512KB	N	Temporarily contains Machine specific data for real time control of the print engine. May temporarily contain non-image job specific data – number of pages, finishing info [IPS and IIT]	Power Off System for 20sec
SDRAM Embedded in CPU	8KB	N	Temporarily contains Machine specific data for real time control of the print engine. May temporarily contain non-image job specific data – number of pages, finishing info [IPS and IIT]	Power Off System for 20sec
Registers	1.2MB	N	(Temporarily contains small Raster Image <128 scan lines) [IPS]	Power Off System for 20sec
Registers	18KB	N	(Temporarily contains small Raster Image <128 scan lines) [IIT]	Power Off System for 20sec
Additional Information: All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.				

Non-Volatile Memory Description for SCANNER module				
Type (Flash, EEPROM, etc)	Size	User Modifiable (Y/N)	Function or Use	Process to Clear:
ROM embedded in CPU	384KB	via Diagnostics – Service SW reload	Contains OS, Boot Code, Machine Specific data – Hardware ID, Performance info, usage counters_ [DADF]	Erase when system software is upgraded or reinstalled
Flash ROM	2048KB	via Diagnostics – Service SW reload	Contains OS, Boot Code, Machine Specific data – Hardware ID, Performance info, usage counters) [IPS and IIT]	Erase when system software is upgraded or reinstalled
EEPROM	2KB	via Diagnostics	Contains Machine Specific data – Hardware ID, Performance info, usage counters [IPS and IIT]	Diagnostic
Flash ROM	16MB	via Diagnostics	Contains No user or job specific data [DAIMAJIN]	Diagnostics
Additional Information: All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.				

Feeder Module Descriptions

Feeder Module Signature Block

This evaluation and summary was completed by:

Signature	
Printed Name	Michael A. Kelly
Job Title	Technical Program Manager
Job Function	Xerox 700 Technical Program Manager
Preparation Date	March 10, 2009

The text below details the information regarding the volatile and non-volatile memory contained in the XEROX 700 Digital Color Press print engine supported feeders. This document lists the available options. Depending on the configuration purchased, your system will contain on or more of these devices. **NOTE: None of these devices store any job data in electronic form.**

Two Tray High Capacity Feeder

The Feeder device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

Oversize High Capacity Feeders for 1 Tray or 2 Trays configurations

The Feeder device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

Finisher Module Descriptions

Finisher Module Signature Block

This evaluation and summary was completed by:

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Printed Name	Michael A. Kelly
Job Title	Technical Program Manager
Job Function	Xerox 700 Technical Program Manager
Preparation Date	March 10, 2009

The text below details the information regarding the volatile and non-volatile memory contained in the XEROX 700 Digital Color Press print engine supported finishers. This document lists the available options. Depending on the configuration purchased, your system will contain one or more of these devices. **NOTE: None of these devices store any job data in electronic form.**

Xerox High Capacity Stacker

The High Capacity Stacker finishing device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

Xerox Multi-functions Finisher

The Multi-function finisher device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.

Xerox Square Trimmer Booklet Finisher

The Square Trimmer Booklet finisher device never contains job data or Personally Identifiable Information. All memory inside the device is used for configuration settings and normal operation. Removal of any memory will void the warranty. Access to any memory is by system programs or diagnostics only.