

Xerox® Iridesse® Press

Statement of Volatility



© 2018 Xerox Corporation. All rights reserved. Xerox® and Xerox and Design®, Iridesse®, and SquareFold® are trademarks of Xerox Corporation in the United States and/or other countries. BRxxxxxx

Other company trademarks are also acknowledged.

Document Version: 1.0 (May 2018).

Contents

| | |
|---|-------------|
| 1. Statement of Volatility..... | 1-1 |
| Notice | 1-1 |
| Introduction..... | 1-2 |
| General Information | 1-3 |
| Volatile Memory | 1-3 |
| Non-Volatile Memory..... | 1-3 |
| 2. User Interface Controller (PCUI) Description..... | 2-4 |
| Volatile Memory Description | 2-4 |
| Non-Volatile Memory Description..... | 2-4 |
| Hard Drive Information | 2-5 |
| 3. Print Engine Modules Descriptions..... | 3-6 |
| Volatile Memory Description..... | 3-6 |
| Non-Volatile Memory Description | 3-7 |
| 4. Print Engine – Electrical box Module Description..... | 4-8 |
| Volatile Memory Description..... | 4-8 |
| Non-Volatile Memory Description | 4-8 |
| 5. Feeder Modules Descriptions..... | 5-10 |
| 6. Finisher Modules Descriptions..... | 6-11 |

1. Statement of Volatility

Notice

This document describes the locations, capacities and contents of volatile and non-volatile memory devices within the Xerox® Iridesse® Press.

The context of the information in this document is that normal means of access or data extraction are being attempted in order to reproduce, read, or extract stored or latent data. This does not include attempts to reproduce, read or extract data or reverse engineer storage methods by individuals or organizations with advanced skills or through the use of extraordinary resources and measures or specialty equipment not normally available in the industry or to the public.

The content of this document is provided for information purposes only. Performance of the products referenced herein is exclusively subject to the applicable Xerox Corporation terms and conditions of sale and/or lease. Nothing stated in this document constitutes the establishment of any additional agreement or binding obligations between Xerox Corporation and any third party.

Introduction

The Xerox® Iridesse® Press is used to perform the following tasks:

- Printing

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.

The Xerox® Iridesse® Press consists of up to several sub-modules:

- Print Engine which is divided in 2 modules (Engine left and Engine right)
- User Interface Controller (PCUI)
- Offset Catch Tray (OCT)
- High Capacity Feeder Module (HCF) (option for a second Feeder)
- Inserter Module (INT) (option)
- Optional High Capacity Stacker (HCS) (option for a second Stacker)
- Cooling Decurler Module (CDM) (option)
- Optional Multifunction Type Finishers (option)
- 2-Sided Trimmer and Creaser Module (TCBM) (option)

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

The engine can be connected to one of the following Print Server:

- Xerox® EX-P6 Iridesse® Print Server Powered by Fiery®

The Statement of Volatility or Security White paper containing volatility information regarding that Print Server 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 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.

2. User Interface Controller (PCUI) Description

The data tables below detail the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press.

The User Interface Controller (PCUI) is a PC-type motherboard. It is equipped with a BIOS, main RAM and Video memory. These are equipped with main RAM and Non-Volatile memory, as described below.

The PCUI is communicating to the Controller via an Ethernet cable but do not communicate directly with the external web.

Volatile Memory Description

| Type (SRAM, DRAM, etc) | Size | User Modifiable (Y/N) | Function or Use | Process to Clear: |
|------------------------|------|-----------------------|--------------------------------|---|
| SDRAM (DDR3) | 4GB | N | Temporary storage of variables | SRAM is erased when machine is powered off. |

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 (SRAM, DRAM, etc) | Size | User Modifiable (Y/N) | Function or Use | Process to Clear: |
|------------------------|-------|-----------------------|-----------------|--------------------------------------|
| EEPROM | 128KB | N | System BIOS | Not customer alterable - Diagnostics |

All memory listed above contains code for execution and configuration information. No user or job data is stored in these locations.

Hard Drive Information

| Drive / Partition (System, Image): | Removable Y / N | Size: | User Modifiable: Y / N | Function: | Process to Clear: |
|------------------------------------|-----------------|-------|------------------------|--|---|
| Hard disk | No | 500GB | Via Diagnostics | OS, Boot code, Application code, Program constant data. Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters). Contains machine specific data (System Admin password, user preferences). May temporarily contain non-image job specific (job name, size, etc) | Content can be initialized to factory default values. |

This disk contains the Windows Operating System and stores executables, fonts, and settings files. Job files do not reside on this disk.

3. Print Engine Modules Descriptions

The data tables below detail the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press.

The Print Engine (Left and Right Engine) is powered by several System boards (**IOT MAIN (1), MD (7), Halftone (2 or 3) and CORE (4) pwba's**).

Volatile Memory Description

| Type (SRAM, DRAM, etc) | Size | User Modifiable (Y/N) | Function or Use | Process to Clear: |
|-------------------------------|-------|-----------------------|---|-------------------|
| SDRAM | 540MB | via Diagnostics | Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters) | Power Off System |
| SDRAM (CPU-IC On Chip Memory) | 64K | N | Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters) [CPU IC] | Power Off System |

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 (SRAM, DRAM, etc) | Size | User Modifiable (Y/N) | Function or Use | Process to Clear: |
|------------------------|--------|-----------------------|--|---|
| Flash | 80MB | via Diagnostics | OS, Boot code, Application code, Program constant data. Contains no user or job specific data | Content is erased and reloaded when system software is upgraded or reinstalled. |
| ROM embedded in CPU IC | 1.03mB | via Diagnostics | OS, Boot code, Application code, Program constant data. Contains no user or job specific data | Content is erased and reloaded when system software is upgraded or reinstalled. |
| Flash | 24MB | N | FPGA Configuration | Content cannot be modified in the field. |
| Battery RAM | 8MB | via Diagnostics | Contains no user or job specific data. Contains machine specific data (hardware ID, system settings, real-time control parameters, print job control state, performance log information, usage counters) | Content can be initialized to factory default values. |

4. Print Engine – Electrical box Module Description

The Print Engine is also powered by a System board (IOT SYS pwba) located in the Electrical box on the Right Engine. It is equipped with main RAM and Non-Volatile memory, as described below.

Volatile Memory Description

| Type (SRAM, DRAM, etc) | Size | User Modifiable (Y/N) | Function or Use | Process to Clear: |
|------------------------|-------------|-----------------------|--|-------------------|
| SDRAM (IOT SYS pwba) | 18MB | N | OS, Executable code, Application code, Machine Specific data for real time control of the print engine. May temporarily contain non-image job specific (job name, size, etc) | Power Off System |
| SDRAM (IOT SYS pwba) | 8MB + 160KB | N | Contains no user or job specific data [CPU IC] | Power Off System |

Non-Volatile Memory Description

| Type (SRAM, DRAM, etc) | Size | User Modifiable (Y/N) | Function or Use | Process to Clear: |
|---------------------------------|-------|-----------------------|---|---|
| EEPROM | 32 KB | N | MAC Address Data | Content cannot be modified in the field. |
| Flash ROM | 2MB | N | OS, Boot code, Application code, Program constant data. Contains no user or job specific data | Content is erased and reloaded when system software is upgraded or reinstalled. |
| Flash (CPU – IC on chip memory) | 1MB | via Diagnostics | OS, Executable code, Application code, Contains no user or job specific data. CPU Boot / Firmware Download Control Code | Content is erased and reloaded when system software is upgraded or reinstalled. |
| Flash | 2MB | N | FPGA Configuration | Content cannot be modified in the field. |
| Battery RAM | 2MB | via Diagnostics | Contains no user or job specific data | Content can be initialized to factory default values. |

| | | | | |
|-----------|------|---|---|---|
| Flash RAM | 16MB | N | OS, Boot code, Application code, Program constant data. Contains no user or job specific data | Content is erased and reloaded when system software is upgraded or reinstalled. |
|-----------|------|---|---|---|

5. Feeder Modules Descriptions

The text below details the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press 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 stores 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.

6. Finisher Modules Descriptions

The text below details the information regarding the volatile and non-volatile memory contained in the Xerox® Iridesse® Press 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 stores any job data in electronic form.

- **Xerox® Cooling Decurler Module**

The Decurler Module 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® 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® Two-sided Trimmer and Creaser**

The Two-sided Creaser Trimmer 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® Production Ready Finisher Booklet Maker, Xerox® Production Ready Finisher Plus, Xerox® Production Ready Finisher, Xerox® Basic Punch, Xerox® Inserter and Xerox® C/Z Folder**

All the above finisher devices never contains job data or Personally Identifiable Information. All memory inside the devices are 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® SquareFold® Trimmer

The SquareFold® 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.

Xerox® Advanced Punch Module

The GBC Advanced Punch 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.