Statement of Volatility
ColorQube 9301/9302/9303

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Notice

This document describes the locations, capacities and contents of volatile and non-volatile memory devices within the ColorQube 9301/9302/9303.

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Statement of Volatility
ColorQube 9301/9302/9303

Introduction

The ColorQube 9301/9302/9303 is used to perform the following tasks:

Printing

Copying

Scanning

Faxing

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.

Device Module Descriptions

Signature Block

This evaluation and summary was completed by:

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Preparation Date	22 April 2011

Product Security Manager signature

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The data tables below detail the information regarding the volatile and non-volatile memory contained in the ColorQube 9301/9302/9303 print engine.

System Module Description

Volatile Memory Description				
Type (SRAM, DRAM, etc)	**Size**	**User Modifiable (Y/N)**	**Function or Use**	**Process to Clear:**
SRAM	2KB	N	User interface.	Power Off System
SRAM	1KB	N	Document Feeder.	Power Off System
SRAM	6KB	N	Scanner Control	Power Off System
DRAM	1GB	N	Copy/Network/FAX Controller. Software control	Power Off System
DRAM	1GB	N	Copy Controller, EPC Image storage	Power Off System
SRAM	1MB	N	JPEG Buffer	Power Off System
DRAM	256MB	N	Print Engine. Control software & Image Storage	Power Off System
Additional Information: There are also a numbers of RAM buffers in the video path that are used for image manipulation (Reduce/Enlarge, etc.), and all have no data retention capability. When power is removed all data is lost. These buffers are typically built into the ASICs. Additionally various RAM is integrated with the CPU's for buffering and manipulating system data. Typical bleed down time for all volatile memory is 10 seconds.				

System Module Description (continued)

Non-Volatile Memory Description				
Type (Flash, EEPROM, etc)	**Size**	**User Modifiable (Y/N)**	**Function or Use**	**Process to Clear:**
Flash	32KB	N	User Interface Executable Code	None. No user image data stored
Flash	32KB	N	Document Feeder Executable Code	None. No user image data stored
Flash	128KB	N	Scanner Executable Code	None. No user image data stored
Flash	32MB	N	Copy /Network/FAX Controller Boot Code	None. No user image data stored
NVRAM	512KB	N	Machine Configuration and setup values	None. No user image data stored
HDD	160GB	N	Copy Controller Application software. Overflow EPC image storage. FAX image storage	On Demand Image Overwrite. Immediate Image Overwrite
Flash	512KB	N	FPGA Configuration file	None. No user image data stored
EEPROM	2KB	N	MAC address storage	None. No user image data stored
Flash	16MB	N	Print Engine Executable Code	None. No user image data stored
NVRAM	32KB	N	Print Engine Configuration and Calibration Data	None. No user image data stored
EEPROM	32KB (each of 4 heads)	N	Print Head Calibration data	None. No user image data stored
Additional Information:				

Feeder and Finisher Module Descriptions

The text below details the information regarding the volatile and non-volatile memory contained in the ColorQube 9301/9302/9303 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.**

Feeder Module Descriptions

Three Tray Module
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.

Paper Feed Platform Module
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

The text below details the information regarding the volatile and non-volatile memory contained in the ColorQube 9301/9302/9303 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.**

Low Capacity Stacker Stapler
The Low 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.

High Volume Finisher
The High Volume Finisher 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.

Third Party finishing devices

None