



# **Certificate of Volatility**

**Version 1.1**

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### Change Notes

DATE	VERSION	CHANGE	BY
9/11/2016	1	Original, generation 2 products	CRD
9/28/2023	1.1	Updated to summarize generation 4 and new products	CRD

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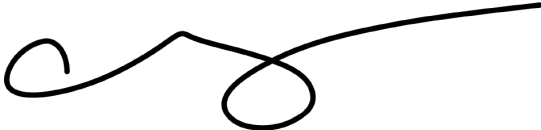
## **Introduction**

Freeport Technologies' products are built on an architecture that excludes hard drives. There are minimal things that a user can change via administrative access through the web user interface (UI), which is controlled by password authentication.

User changes are stored in non-volatile random-access memory (RAM) and can only be changed by an authenticated user through the web UI login.

Firmware may be downgraded or upgraded through the web UI of each product. Once the new firmware is loaded, an integrity check on the file will be performed and verified prior to activation. If activation fails, the product will indicate the event and resume the previously activated version. The product will also check for valid option keys, which must be generated by Freeport Technologies. The option keys are unique for each product's hardware fingerprint and cannot be installed against other products.

If you have any questions or concerns, please contact me.



**Charles Dulaney**  
**Director of Internal Operations**  
**Freeport Technologies, Inc.**  
**470 Springpark Place, Suite 100**  
**Herndon, VA 20170**  
[cdulaney@freeporttech.com](mailto:cdulaney@freeporttech.com)  
[www.freeporttech.com](http://www.freeporttech.com)  
(C) 571.303.9840  
(O) 571.262.0352

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Secure CODEC Configurator, 5 Network Switch (SCC5Net) G4

Initiates and manages all switching tasks by controlling the order of execution and validating that all tasks are executed as intended.



Storage	Size	Volatility	Purpose	Restrictions
DDR3L	512MB	Volatile	Run time memory	OS and Application access
eMMC	200MB	Non-Volatile	Boot (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	650MB	Non-Volatile	Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	650MB	Non-Volatile	Reserve Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	2GB	Non-Volatile	Variable (Read-Write File System)	Contains files that can be indirectly modified or viewed through the system's web interface, after successful login

Secure CODEC Configurator (SCC) G4

Captures, cleans, and restores the profile of the CODEC for a particular network/mode.



Storage	Size	Volatility	Purpose	Restrictions
DDR3L	512MB	Volatile	Run time memory	OS and Application access
eMMC	200MB	Non-Volatile	Boot (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	650MB	Non-Volatile	Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	650MB	Non-Volatile	Reserve Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	2GB	Non-Volatile	Variable (Read-Write File System)	Contains files that can be indirectly modified or viewed through the system's web interface, after successful login

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## Control System Isolator (CSI) G1

Provides the ability to send commands from an AV control system to an AV component via RS-232 while restricting the information that flows back. It utilizes a two-way serial communication path with the component but only a one-way serial communication path, plus status, back to the AV control system.

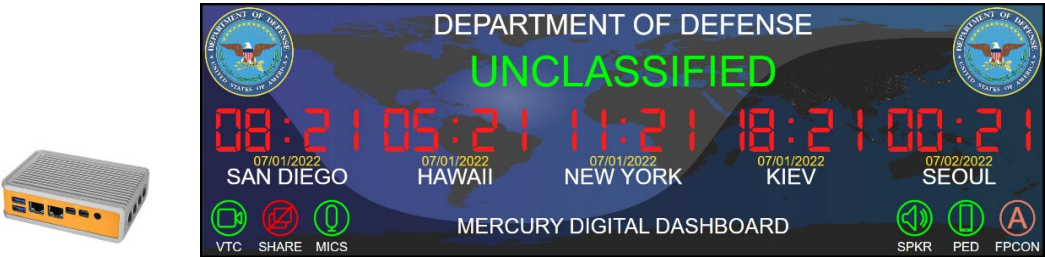


Storage	Size	Volatility	Purpose	Restrictions
A-SIDE				
LPDDR4	4GB	Volatile	Run time memory	OS and Application access
eMMC	500MB	Non-Volatile	Boot (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	3GB	Non-Volatile	Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	3GB	Non-Volatile	Reserve Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	8GB	Non-Volatile	Variable (Read-Write File System)	Contains files that can be indirectly modified or viewed through the system's web interface, after successful login
Storage	Size	Volatility	Purpose	Restrictions
B-SIDE				
LPDDR4	4GB	Volatile	Run time memory	OS and Application access
eMMC	500MB	Non-Volatile	Boot (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	3GB	Non-Volatile	Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	3GB	Non-Volatile	Reserve Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	8GB	Non-Volatile	Variable (Read-Write File System)	OS access only. Not modifiable by system application or user.

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Mercury Digital Dashboard (MDD) G2

Provides system status throughout the switching process with room classification status once a network/mode transition is complete.



Storage	Size	Volatility	Purpose	Restrictions
LPDDR4	4GB	Volatile	Run time memory	OS and Application access
eMMC	1GB	Non-Volatile	Boot (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	6GB	Non-Volatile	Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	6GB	Non-Volatile	Reserve Root (Read-Only File System)	Modifiable only through firmware upgrade
eMMC	10GB	Non-Volatile	Variable (Read-Write File System)	Contains files that can be indirectly modified or viewed through the system's web interface, after successful login

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