

Letter of Volatility (SCBV2A)

10 Aug 2026

1.0 Certificate of Volatility			
Model: Vibrant Avionics System	Part Number: SCBV2A	Manufacturer: Securboation, Inc Street Address: 1050 W. NASA Blvd City: Melbourne State: FL Zip: 32901	
2.0 Volatile Memory			
Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)? ☒ Yes ☐ No			
<i>If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):</i>			
Type (SRAM, DRAM, etc.):	Size:	User Modifiable:	Function:
LPDDR4x SDRAM (ECC) Battery Backup ☐ Yes ☒ No	32 GB	☒ Yes ☐ No	System memory. Linux (L4T) OS, Vibrant application
Xavier SoC caches and internal SRAM Battery Backup ☐ Yes ☒ No	Device-internal	☒ Yes ☐ No	L1/L2/L3 caches, boot SRAM, security engine workspace
Main FPGA	35 Mbits + Logic Reg	☒ Yes ☐ No	UDP packetization; message FIFOs prior to transmission
3.0 Non-Volatile Memory			
Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is removed)? ☒ Yes ☐ No			
<i>If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):</i>			
Type (BBRAM, Flash, EEPROM, FPGA, etc.):	Size:	User Modifiable:	Function:
eMMC	64 GB raw	☒ Yes ☐ No	Operating System, Services, and Application
QSPI boot flash	32 MB (nominal)	☐ Yes ☒ No	Boot Configuration table and early bootloader
Module ID EEPROM	256 x 8 bits (nominal)	☐ Yes ☒ No	Modular board ID and serial number
Carrier ID EEPROM	256 x 8 bits (nominal)	☐ Yes ☒ No	Carrier board ID and serial number
M.2 SSD PCIe Gen3 x4	1.92 TB x 2	☒ Yes ☐ No	Data Storage
FPGA Config Flash	268,435,456 bits	☐ Yes ☒ No	FPGA image storage. Encrypted and write protected.
4.0 Media / Wireless Transmission			
Does the item contain media storage capability (i.e., removable or non-removable disk drives, tape drives, USB or memory cards, etc.)? ☒ Yes ☐ No			
Does the item deploy any other methods of non-wired access to transmit or receive any other data whatsoever? ☐ Yes ☒ No If yes, please specify: _____			
<i>If the answer is 'Yes' to media storage capability, please provide the following information for each type (use additional sheets if required):</i>			
Type (Disk, Tape, etc.):	Size:	User Modifiable:	Function:
Removable: ☐ Yes ☐ No			
SD Card Removable: ☒ Yes ☐ No	256 MB	☒ Yes ☐ No	Records data traffic for post analysis. Not installed from the factory.
5.0 Sanitization			
5.1 Does the item contain an erase or sanitization function? ☐ Yes ☒ No			
If yes, please explain what this erase/sanitization function accomplishes (please include if it overwrites the data with random patterns or text or accomplishes a full chip erase). Please use the additional information box (6.0), if needed.			
6.0 Additional Information			
Power Supply CCA 10–32 VDC input conditioning and regulation only. Contains no memory device.			
Chassis and cabling Chassis, covers, gaskets, internal and external cable assemblies. Contain no memory device.			
7.0 Validation			
<i>The individual signing below is technically knowledgeable to the information gathered within this document.</i>			
Print Name:	Title:	Signature:	