

Certificate of Volatility				
Model: UEIPACx00-1G 11/12	Part Number: UEIPAC x00-1G-11/12	Manufacturer: United Electronic Industries, Inc		
		Street Address: 249 Vanderbilt Ave		
		City: Norwood	State: MA	Zip: 02062
Volatile Memory				
Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):				
Type (SRAM, DRAM, etc.): DRAM	Size: 1 GByte	User Modifiable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Function: Scratch pad and temporary storage for firmware.	Process to Clear: Power off unit
Type (SRAM, DRAM, etc.):	Size:	User Modifiable: <input type="checkbox"/> Yes <input type="checkbox"/> No	Function:	Process to Clear:
Type (SRAM, DRAM, etc.):	Size:	User Modifiable: <input type="checkbox"/> Yes <input type="checkbox"/> No	Function:	Process to Clear:
Non-Volatile Memory				
Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is removed)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):				
Can this item contain Cache or Buffer information after shut down? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No It could, but only data that the application specifically chose to write. The standard API does not support this function				
Type (BBRAM, Flash, EEPROM, etc.): FLASH	Size: 8 GByte	User Modifiable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Function: Holds specific unit info such as serial number. Also holds unit's OS/firmware. Can be used to hold user programs and/or data.	Process to Clear: Can be cleared with "special" commands, but clearing the memory would render the unit inoperative. To clear data written by the user's application, it must be overwritten/cleared by the user.
Type (BBRAM, Flash, EEPROM, etc.): Serial flash	Size: 16 MByte	User Modifiable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Function: Contains uBoot loader and low level Linux kernel	Process to Clear: Can only be cleared via special JTAG programmer. Clearing this memory would "brick" the chassis
Type (BBRAM, Flash, EEPROM, etc.):	Size:	User Modifiable: <input type="checkbox"/> Yes <input type="checkbox"/> No	Function:	Process to Clear:
Media				
Does the item contain media storage capability (i.e., removable or non-removable disk drives, tape drives, memory cards, etc.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):				
Type (Disk, Tape, etc.): Optional microSD Card Removable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Size: Up to 32 GB	User Modifiable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Function: SD card typically holds the Linux file system, drivers, the user application and any data the user application saves. However, if a Solid-state hard drive is installed, the uSD typically only holds use data.	Process to Clear: The SD card can be cleared by reformatting the card, but if the SD card includes the system files, it would render the card/chassis inoperative if booting from card location. User data and applications are typically stored in separate directories that can be erased by the user if desired.

The information contained on this form shall be considered **Company Proprietary Data** furnished by the item manufacturer. The data shall be released only to UEI customer employees or US Government representatives as necessary to accomplish the intended task (i.e., obtaining approval to operate a system processing classified data and incorporating the described item). The data shall not be disseminated to other vendor/contractor personnel without the express written authorization of the manufacturer.

<p>Type (Disk, Tape, etc.): Optional Solid State hard drive Removable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>(may be removed, but requires the unit be opened up, which requires various tools)</p>	<p>Size: Up to 32 GB</p>	<p>User Modifiable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Function: SS Hard drive when installed typically holds the Linux file system, drivers, the user application and any data the user application saves.</p>	<p>Process to Clear: The SS hard drive can be cleared by reformatting the drive, but if the drive includes the system files, it would render the card/chassis inoperative if booting from card location. User data and applications are typically stored in separate directories that can be erased by the user if desired.</p>
<p>Type (Disk, Tape, etc.): Optional M.2 solid Removable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Size: 320 GByte</p>	<p>User Modifiable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Function: SS Hard drive when installed in the M.2 slot typically, the user application and any data the user application saves.</p>	<p>Process to Clear: The M.2 based hard drive can be cleared by reformatting the drive, but if the drive includes the system files, it would render the card/chassis inoperative if booting from card location. User data and applications are typically stored in separate directories that can be erased by the user if desired.</p>
<p>Additional Information: UEI's UEIPAC series chassis do not store any data, input or output, in any non-volatile memory unless the writing of this data is specifically implemented in the customer software. To clear this information out of memory an application would have to be written by the customer that overwrites the memory that has been written by the user applications.</p> <p>All other data written to and/or read from UEIPAC chassis is lost within seconds of power loss or if the power switch is turned off.</p> <p>The only exception to this rule is the user, either via the API or PowerDNA Explorer, may store default "power on" and "emergency shut-down" output conditions/states of the analog and digital output devices. Note that even this data is ONLY written to non-volatile memory upon specific instructions either from PowerDNA Explorer or the appropriate API call and never from standard data I/O functions.</p>				
<p>Validation Test</p>				
<p>Does the item have a validation test method? (to determine that it has been returned to default settings, cleared, flushed) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>				
<p>If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):</p>				
<p>Additional Information: Powering the unit off will flush all dynamic memory. During reboot after power-up, all factory default settings are reset except for the unit's IP addresses.</p>				
<p>Vendor Representative Information</p>				
<p>Name: Bob Judd</p>	<p>Title: Engineer</p>	<p>Office Phone: 508-921-4557</p>	<p>Fax/Email: bjudd@ueidaq.com</p>	

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