Date:3/20/18

Contificate of Valatility									
Model: Certificate of Volatility Manufacturer: United Electronic Industries, Inc							Inc		
UEIPAC x00-1G-03		JEIPAC x00-1G-03		Manufacturer: United Electronic Industries, Inc Street Address: 27 Renmar Ave					
CEII AC 200-1G-03	OLII AC XUU-1G-U3					M A	7in: 02081		
City: Walpole State: MA Zip: 02081							Zip. 02001		
Volatile Memory Does the item centain veletile memory (i.e., memory whose contents are last when power is removed)?									
Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)? X□ Yes □ No									
	If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):								
Type (SRAM, DRAM, etc.):	Size:	User		Function:		Process to Clear:			
DRAM	256 MB	Modifial		Scratch pad and temporary		Power off unit			
		X□ Yes	S	storage for firmware.					
Type (SRAM, DRAM, etc.):	Size:	User		Function:		Process to Cl	ear:		
Type (Sixini, Divini, etc.).	Size.	Modifiable:		- unctiviii		Trocess to cicar.			
		☐ Yes							
		□ No							
Type (SRAM, DRAM, etc.):	Size:	User Modifiables		Function:		Process to Clear:			
		Modifiable: ☐ Yes							
		□ No							
		Non	-Volati	ile Memory					
Does the item contain non-vol	latile memory (i.e.,				er is ren	noved)?			
X Yes 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?									
				ion specifically chose to writ	e The	standard API d	loes not sunnort		
	this function	ita mat me	аррисас	ion specifically chose to write	c. The	stanuaru Arru	ocs not support		
Type (BBRAM, Flash, EEPR	Type (BBRAM, Flash, EEPROM, Size: User Function: Process to Clear:						ear:		
etc.):	128	Modifial		Holds specific unit info such as		Can be cleared with "special"			
FLASH	MByte			serial number. Also holds unit's		commands, but clearing the			
		☐ No		firmware and boot loader. Can be used to hold user programs		memory would render the unit inoperative. To clear data			
				and/or data.	41113	written by th			
						application, i	t must be		
							cleared by the user.		
Type (BBRAM, Flash, EEPR	OM, Size:	Size: User Modifiable:		Function:		Process to Cl	ear:		
etc.):		Modifiai	oie:						
Type (BBRAM, Flash, EEPR	OM, Size:	User		Function:		Process to Cl	ear:		
		Modifial	ole:						
		☐ Yes ☐ No							
Does the item contain media s	storage canability (i	e removal			ne drive	s memory car	ds etc.)?		
X Yes No	coruge cupusinty (1	, 1	or or no	ir removable dish drives, ta	pe urre	s, memory cur	us, e.e.).		
If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):									
Type (Disk, Tape, etc.):	Size:	User	_	Function:		Process to Cl			
SD Card Removable:	Up to 32 GB	Modifial X Yes		SD card typically holds th			can be cleared by the card, but that		
X Yes No	GD		,	Linux file system, drivers, the user application and any data			r the card/chassis		
				the user application saves			f booting from		
						card location	. User data and		
						applications			
							arate directories rased by the user if		
						desired.	i ascu by the usel II		

The information contained on this form shall be considered <u>Company Proprietary Data</u> 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.

Company Proprietary Data							
Type (Disk, Tape, etc.): SSD (optional) Removable: Yes X No	Size: Up to 64 GB	User Modifiable: X ☐ Yes ☐ No	Function: Optional SSD can hold the Linux file system, drivers, user application and any data the user application saves	Process to Clear: The SSD can be cleared by reformatting the drive, but that would render the drive/chassis inoperative if booting from drive location. User data and applications are typically stored in separate directories that can be erased by the user if desired Alternatively, the SSD can be removed, but it requires tools and the system must be disassembled in order to get to the SSD.			
Type (Disk, Tape, etc.): Removable: Yes No	Size:	User Modifiable: ☐ Yes ☐ No	Function:	Process to Clear:			
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. 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. 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.							
A jumper on the Power-1GB board (part of the CPU module) allows the user to select whether writing to non-volatile FLASH memory is enabled or disabled. When set in the disable position, writes to FLASH are disabled in hardware as the jumper disables the write control line on the memory. Note that when these writes are disabled, the firmware on the chassis cannot be updated. For this reason most customers choose to do their development with the write enabled, and then move the jumper to disabled for deployment.							
Though hardware for an SD card interface is provided, with the version of Firmware and Software provided in this version of the chassis (PPCx-1G), there is no ability to read or write data to or from an SD card.							

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Validation Test

Does the item have a validation test method? (to determine that it has been returned to default settings, cleared, flushed)

If the answer is 'Yes', please provide the following information for each type (use additional sheets if required):

Company Proprietary Data

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.

Vendor Representative Information								
Name: Austyn Turner	Title: Application Engineer	Office Phone: 508-921-4592	Fax/Email: aturner@ueidag.com					
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