Symmetricom®

TT&M Division

ISO 9001 Registered

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CERTIFICATE OF VOLATILITY

Date: 10 April 2010

Model No.   bc635PCI-V2   bc637PCI-V2
                                      bc635PCIe   bc637PCIe

Model Description   Time and Frequency Processor

This certification defines volatile and non-volatile memory devices for use by End Users in clearing memory device data for security purposes.

Memory Size	Memory Type	Volatile/Non-Volatile	User Data	Location
31-bytes	NVRAM	Non-Volatile	No	U2

Symmetricom P/N 135-91130-19-4
MAXIM/DALLAS SEMI P/N DS1302Z+T&R
(IC REALTIME CLOCK TRICKLE CHARGE SOIC-8)

Function: U2 is the Real Time Clock that may be backed up by the on-board battery.
Clearing Process: U2 contains 31-bytes of non-volatile RAM that is not used. The content of this RAM is lost when JP1 is removed. U2 is soldered to the PCB.

Memory Size	Memory Type	Volatile/Non-Volatile	User Data	Location
48K RAM Bits	FPGA	Volatile	No	U5

Symmetricom P/N 132-22150-26-4
XILINX P/N XC2S150-6PQG208C
(IC FPGA 3888 LOGIC CELLS 150K GATES QFP 208)

Function: U5 is an FPGA that is reprogrammed each time the board is powered on. The configuration program for this part is contained in and programmed by U7.
Clearing Process: The content of this device is volatile and is lost when the board is powered down. U5 is soldered to the PCB.

Memory Size	Memory Type	Volatile/Non-Volatile	User Data	Location
2Kbit	SEEPROM	Non-Volatile	No	U19

Symmetricom P/N 131-51001-02-2
STMICROELECTRONICS P/N M93C46-WBN7P
(IC MEMORY SERIAL EEPROM 1024 PDIP8)

Function: Configures the PLX 9030 PCI host adapter.
Clearing Process: There is no clearing procedure for this memory.
U19 is in a dual inline package that is mounted in an 8-pin socket.

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Memory Size	Memory Type	Volatile/Non-Volatile	User Data	Location
256KByte	FlashROM	Non-Volatile	No	U7
12KByte	RAM	Volatile	Yes	U7
4KByte	EEPROM	Non-Volatile	No	U7

Symmetricom P/N 136-31256-26-2
FREESCALE P/N MC9S12DG256CFUE
(IC MICROCONTROLLER 16-BIT QFP80)

FlashROM

Function: Microcontroller Flash memory used for program storage and for configuration data for FPGA U5. This part is not reprogrammed in normal operation.
Clearing Process: There is no clearing procedure for this memory. U7 is soldered to the PCB.

RAM
Function: Microcontroller RAM used as operating memory.
Clearing Process: The content of this memory is volatile and is lost when the PCI Card is powered down.

EEPROM
Function: Microcontroller memory used to store non-volatile configuration data.
Clearing Process: There is no clearing procedure for this memory. U7 is soldered to the PCB.

GPS Receiver   **Installed on the bc637PCI-V2 and bc637PCIe PCI Cards**

Symmetricom P/N 111-00011-01-1
Trimble Navigation P/N 38116-25
(GPS 8 CHANNEL TIMING RECEIVER MODULE)

Function: This GPS Receiver has as both Volatile and non-Volatile memory. There is no way to access and/or erase these memories through commands on the unit.
Clearing: None.

Robert Mengelberg, Quality Engineer, 10 April 2010
Authorized Signature, Title, Date