



CERTIFICATE OF VOLATILITY

Date:	26 April 2018	

Model No. <u>SyncServer S80</u>

P/N 090-15200-080

Model Description Ruggedized and Secure Network Time Server

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

FPGA Non Volatile No U10

64 KB Embedded SRAM (eSRAM)

512 KB Embedded Nonvolatile Memory (eNVM)

Microsemi P/N 148-01993-000

Microsemi P/N M2S090T-1FGG484IX418

(IC FPGA: SmartFusion2 System-on-Chip FPGA)

Function: Flash based FPGA.

The software automatically checks for the latest FPGA image version.

The FPGA will be automatically updated when the device detects a version

number is greater then what is running,

Clearing Process: There is no clearing procedure for this memory.

User cannot write to this device.

1M BIT SEEPROM Non-Volatile No U14

Microsemi P/N 148-01780-000 ATMEL P/N AT24CM01-XHD-T

(IC 2-WIRE SERIAL EEPROM 1MBIT 1MHZ 8TSSOP)

Function: Manufacture information such as MAC address, etc.

Clearing Process: There is no clearing procedure for this memory.

User cannot write to this device.

1G-BIT RAM Volatile No U8

Microsemi P/N 148-01759-000

MICRON P/N MT46H64M16LFBF-5 IT:B

(IC MEMORY LPDDR SDRAM 1G-BIT 64MX16 1.8V VFBGA-60 TRAY)

Function: Temporary data storage.
Clearing Process: Remove power from the unit.



Memory Size Memory Type Volatile/Non-Volatile User Data Location

512 Mbit Flash Memory Non-Volatile Yes U4

Microsemi P/N 148-01881-000

SPANSION P/N S25FL512SDPBHIC10

(IC MEMORY FLASH SPI 512M-BIT 256Kbytes sector FAB024 BGA-24)

Function: Firmware, FPGA image and user configuration settings...

Clearing Process: User cannot write to this device.

To remove all configuration setting and return to the factory default settings, use the following commands. Reference Page 34 of the S80 User Guide

Set configuration:

Use this command to set the current configuration to factory setting

and remove all attributes.

Use of this command results in reboot of the S80.

Command Syntax:

set configuration factory

Level:

Config and Admin

Example 1:

To set the factory configuration S80> set configuration factory

The Microsemi P/N 112-00090-000 Time & Frequency Reference GNSS module (u-blox P/N LEA-M8F-0) is installed in the S80 NTS Unit.

Note: The following information was received from u-blox regarding their P/N LEA-M8F-0 device.

Memory Size Memory Type Volatile/Non-Volatile User Data

176k x 8 bit SRAM Volatile No

Function: Temporary Data (System RAM)

User can not modify this memory device.

Clearing Process: Remove power from the device.

128k x 8 bit SRAM Volatile No

Function: Temporary Data (GPS RAM)

User can not modify this memory device.

Clearing Process: Remove power from the device.



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Memory Size Memory Type Volatile/Non-Volatile User Data

32k x 8 bit BBRAM Volatile Yes

Function: Configuration, calibration data

User can modify this memory device.

Clearing Process: Remove power from the device.

8,192 pages x 256 Bytes Flash (16 Mbit) Non-Volatile Yes

Function: GNSS module firmware and configuration settings

User can modify this memory device.

Clearing Process: Use "set configuration factory" command to clear all configuration

settings. Allow device to run for 3-4 minutes after rebooting to clear

configuration data from the GNSS receiver flash memory.

Robert Mengelberg, Compliance Engineer 126 April 2018

Authorized Signature,

Title,

Date