

Main Memory Volatility Statement

Models: *StarLite StarBright*

Product Description:

General Purpose Laser Power Meter

Memory Description:

These meters contain the following memory devices:

Upper PCB:

U1: PROCESSOR MCIMX283

Main processor, contains internal RAM and Cache. Used during run-time to store variables for the software. Volatile

U23: 16-bit DDR2 RAM MEMORY MT47H64M16HR-25

Main RAM of the system. Used during run-time to store variables for the software. Volatile

U24: 8-bit NAND FLASH MT29F2G08

Used to store BSP and operating code for the meter's software application. Non-volatile.

U35: I2C EEPROM 24LC16BT-I/MC

Used to store start-up settings for the meter. Non-volatile.

Lower PCB:

U1: MICROCONTROLLER STM32F103VCT

Contains non-volatile FLASH used to store operating code of the MCU, and volatile RAM used to store variables for the software while it is running.

U21: I2C EEPROM 24LC16BIMC

General:

Meter calibration constants are stored in U21. The calibration constants are generated when the meter is sent through its calibration process in the factory, and are fundamental to the meter operation. RAM held in the internal Microcontroller (U1, lower PCB), and the internal Processor (U1, upper PCB) are not accessible to the user through the remote interface and their contents are lost when the meter is turned off.

Note: *The meter contains a D15 connector to which a range of custom sensors can be attached. Calibration data for any such sensor is separate from the meter and is stored inside the sensor itself, not inside the meter.*

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