Statement of Memory Volatility 8588A 8558A

Model:

8588A, 8558A

Product Name:

8588A Digitizing Reference Multimeter
8558A Digitizing Multimeter

Instrument Description:

High precision digital multimeter

Memory Description:

Volatile Memory

The following stores may contain user-specific information, but will be erased if the power is removed for at least 60 seconds:

- 1 GB SDRAM (Digital PCA) contains code image and workspace memory during operation
- 1400 kbits (SOC-Digital PCA) contains communication FIFOs
- 64 MB SDRAM (Analog PCA) contains code image, workspace memory during operation and measurements as directed by user
- 80 KB SRAM (Analog PCA) internal processor cache
- 63 KB SRAM (Analog PCA) internal FPGA RAM used for DSP filters and communication FIFOs
- 6 KB SRAM (Front PCA) internal MCU RAM

Non-Volatile Memory

- 64 MB NOR Flash PROM (Boot-Digital PCA) containing
  - Pre-loader code
  - U-boot
  - Device tree
  - Kernel
  - FPGA configuration
  - Not user-erasable

- 256 MB NOR Flash PROM (File System-Digital PCA) containing
  - Application code
  - User preferences (contrast, bus address, etc.)
  - Serial number
  - Not user-erasable

- 16 GB NAND Flash SD-Card (Digital PCA) containing
  - Groups of measurements saved by user
  - Not user securely erasable

- 16 MB NOR Flash PROM (Analog PCA) containing
  - Firmware loader
  - Firmware image
  - FPGA configuration
  - Not user erasable

- 32 KB EEPROM (Analog PCA) containing
  - Calibration correction stores
  - Model number
  - Relay operation count record
  - Not user erasable

- 32 KB NOR Flash (Front PCA) containing
  - Keypad/LED controller firmware

Memory Cleaning Instructions:

Information in the RAM area (SDRAM) is lost once the power to the instrument has been removed for at least 60 seconds.

Data stored in the Flash area used measurement storage can be deleted by selecting: Mem Setup -> Clear/Rename Record -> Delete All. However this is not a secure erase