



Date: [December 21, 2017](#)

Subject: Statement of Volatility – Dell [S718QL](#) Projector

To whom it may concern:

The purpose of this document is to certify that the Dell [S718QL](#) projector will not save, retain, or reproduce a signal to any internal or external component after power has been removed and reapplied to the unit.

The Dell [S718QL](#) projector contains both volatile and non-volatile (NV) memory ICs. Volatile memory(s) lose their data immediately upon removal of power. Non-volatile memory ICs continue to retain their data even after the power has been removed. However, no input video data is written into these memory ICs during operation.

List below contains volatile and non-volatile memory ICs used in the Dell [S718QL](#) projector.

System EEPROM	HT24LC32
Size	32K bit
Type [e.g. Flash PROM, EEPROM]	EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	OSD setting: Yes
Purpose	Storage of system setting (OSD).
How is data input to this memory?	Controls the OSD menu and changes OSD setting (ex. DDP setting parameters) and the setting will be stored into system EEPROM.
How is this memory write protected?	Software write protected.

HDMI EDID EEPROM	HT24LC02
Size	2Kbit
Type [e.g. Flash PROM, EEPROM]	EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Storage of HDMI EDID
How is data input to this memory?	Writing EDID requires a customized EDID tool.
How is this memory write protected?	Hardware and software write protected.

LAN EEPROM	HT24LC02
Size	2Kbit
Type [e.g. Flash PROM, EEPROM]	EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	Yes, ex. IP address, DHCP ...
Purpose	Storage of MAC address, Network information, etc.,
How is data input to this memory?	Writing MAC address requires a customized MAC software tool and an Ethernet cable.
How is this memory write protected?	Software write protected.

Multimedia NAND FLASH	MT29F64G08CBABAWP:B
Size	64Gbit
Type [e.g. Flash PROM, EEPROM]	NAND FLASH
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Storage of AM8250 software (contains multimedia system, BIOS, and diagnostic program).

How is data input to this memory?	Writing AM8250 firmware requires a customized programming tool.
How is this memory write protected?	Software write protected.

MST9U13Q1-1 SPI FLASH	MX25L3233FM2I-08G
Size	32Mbit
Type [e.g. Flash PROM, EEPROM]	SPI FLASH PROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	System software (contains system, BIOS, and diagnostic program).
How is data input to this memory?	System software – Vendor-supplied file and loader program.
How is this memory write protected?	Software write protected.

Firmware Memory	MX29GL128FHT2I-90G
Size	128Mbit
Type [e.g. Flash PROM, EEPROM]	<i>Flash PROM</i>
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	<ol style="list-style-type: none"> 1) <i>System software (contains system, BIOS, and diagnostic program).</i> 2) <i>Driver software (DLP data processor BIOS and test pattern).</i>
How is data input to this memory?	Writing DDP4422 firmware requires a customized programming tool.
How is this memory write protected?	Software write protected.

Multimedia eMMC FLASH	MTFC4GACAJCN-1M
Size	4GB
Type [e.g. Flash PROM, EEPROM]	eMMC FLASH
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Video System software (contains multimedia system, BIOS, and diagnostic program).
How is data input to this memory?	System software – Vendor-supplied file and loader program.
How is this memory write protected?	Software write protected.

FPGA FW SPI FLASH	N25Q128A13ESE40F
Size	128Mb
Type [e.g. Flash PROM, EEPROM]	SERIAL NOR FLASH
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	FPGA System software (contains FPGA system BIOS and diagnostic program).
How is data input to this memory?	Writing FPGA firmware requires a customized programming tool.
How is this memory write protected?	Software write protected.

MST9U13Q1-1 System EEPROM	HT24LC128
Size	128Kb
Type [e.g. Flash PROM, EEPROM]	EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No

Purpose	Storage of MST9U13Q1-1system setting
How is data input to this memory?	Controls the OSD menu and changes OSD settings (ex. brightness, contrast, color setting) and the settings will be stored into MST9U13Q1-1 system EEPROM.
How is this memory write protected?	Software write protected.
MCU System EEPROM	LPC11U67JBD100E
Size	128KB flash,4KB EEPOOM,
Type [e.g. Flash PROM, EEPROM]	Flash, EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Storage of MCU FW
How is data input to this memory?	Writing MCU FW via UART port download mode.
How is this memory write protected?	Software write protected

Please direct any questions to your Dell Marketing contact.

Sincerely,

Dell Marketing