



Date: October 9, 2018

Subject: Statement of Volatility – Dell P519HL Projector

To whom it may concern:

The purpose of this document is to certify that the Dell P519HL 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 P519HL 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 P519HL projector.

System EEPROM	24LC32
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 the OSD settings (ex. brightness, contrast, color settings) and the settings will be stored into the system EEPROM.
How is this memory write protected?	Software write protected

VGA and HDMI EDID EEPROM	24LC02
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 VGA and 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	24LC02
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. e.g. 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	MT29F32G08CBADBWPR: D
Size	32G bit (4Gbit x 8)
Type [e.g. Flash PROM, EEPROM]	NAND Flash memory
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Storage of AM8250 firmware. Storage of user's data (e.g.: Documents, photos, music, videos, etc.,)
How is data input to this memory?	(1) Writing AM8250 firmware requires a customized programming tool. (2) Copy files via USB A to A cable.
How is this memory write protected?	Software write protected. Internal memory is free to access and delete.

System NOR Flash	MX29GL128FHT2I-90G
Size	128Mbit (8Mbit x 16)
Type [e.g. Flash PROM, EEPROM]	NOR Flash memory
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	(1) Storage of DDP4422HV firmware. (2) For screen capture function.

How is data input to this memory?	(1) Writing DDP4422HV firmware requires a customized programming tool. (2) Writing captured images requires end-user manual operation via OSD menu.
How is this memory write protected?	Software write protected.

MCU on chip Flash	LPC1125JBD4
Size	64K Byte Flash,
Type [e.g. Flash PROM, EEPROM]	MCU (on chip flash memory)
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Storage of MCU firmware
How is data input to this memory?	Writing MCU firmware via UART port at download mode.
How is this memory write protected?	Software write protected.

Please direct any questions to your Dell Marketing contact.

Sincerely,

Dell Marketing