



# Statement of Volatility – Dell P2416D

△ CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

The purpose of this document is to certify that the Dell P2416D monitor will not save, retain or reproduce a signal to any internal or external component after power has been removed and re-applied to the unit.

The Dell P2416D monitor 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.

The list below contains volatile and non-volatile memory ICs used in the Dell P2416D monitor.

**Table 1.** List of Non-Volatile Components on System Board

<b>System EEPROM</b>	ST M24C16
Size	128Kbit
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?	Control the OSD menu and change OSD setting(ex. Brightness, contrast, color setting) and the setting will be stored into system EEPROM
How is this memory write protected?	Software write protected

<b>VGA EDID EEPROM</b>	ST M24C02
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 EDID
How is data input to this memory?	VGA EDID is embedded in the firmware, and copied to EEPROM after F/W programming. (or via customized EDID tool)
How is this memory write protected?	Hardware and software write protected
<b>HDMI EDID EEPROM</b>	ST M24C02

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?	HDMI EDID is embedded in the firmware, and copied to EEPROM after F/W programming. (or via customized EDID tool)
How is this memory write protected?	Hardware and software write protected

<b>Flash ROM</b>	WINBOND W25Q16DVSSIG
Size	16Mbit
Type [e.g. Flash PROM, EEPROM]	Serial flash memory
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	To store firmware
How is data input to this memory?	Loading flash memory requires a vendor-provided tool and firmware
How is this memory write protected?	Software write protected

**⚠CAUTION:** All other components on the system board lose data if power is removed from the system. Primary power loss (unplugging the power cord and removing the battery) destroys all user data on the memory (DDR3, 1067 MHz). Secondary power loss (removing the on-board coin-cell battery) destroys system data on the system configuration and time-of-day information.