



Statement of Volatility – Dell E2420HS Monitor

⚠ 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 E2420HS monitor 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 E2420HS 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.

List below contains volatile and non volatile memory ICs used in the Dell E2420HS monitor.

System EEPROM	ST M24C16
Size	16Kbit
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 settings (ex. brightness, contrast, color) and the settings will be stored into system EEPROM.
How is this memory write protected?	Software write protected

VGA EDID EEPROM	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?	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

HDMI EDID EEPROM	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 HDMIEDID
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

System Flash ROM	MXIC MX25L4026EM1I-12G
Size	4Mbit
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) destroys all user data.

© 2020 Dell Inc.

Trademarks used in this text: Dell™, the DELL logo, Precision™ are trademarks of Dell Inc. Intel®, Pentium®, Xeon®, Core™ and Celeron® are registered trademarks of Intel Corporation in the U.S. and other countries. Microsoft®, Windows® are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.