Statement of Volatility – Dell UltraSharp U2412M

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

The Dell UltraSharp U2412M monitor contains both volatile and non-volatile (NV) components. Volatile components lose their data immediately after power is removed from the component. Non-volatile (NV) components continue to retain their data even after power is removed from the component. The following NV components are present on the system board.

List below contains volatile and non-volatile memory ICs used in Dell UltraSharp U2412M monitor.

System EEPROM and (DP EEPROM)	ATMEL 24C16
Size	16 Kbit
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 EDID: No
Purpose	Storage of system setting (OSD) / Storage of DP EDID
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

VGA EDID EEPROM	ATMEL 24C02
Size	2 Kbit
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?	Writing EDID requires a customized EDID tool and a special VGA cable.
How is this memory write protected?	Hardware and software write-protected

DVI EDID EEPROM	ATMEL 24C02
Size	2 Kbit
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 DVI EDID
How is data input to this memory?	DVI 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

Flash ROM	Winbond W25X40B
Size	4 Mbit
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

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