Statement of Volatility – Dell UltraSharp U3818DW Monitor

The purpose of this document is to certify that the Dell UltraSharp U3818DW 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 UltraSharp U3818DW 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 UltraSharp U3818DW 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 setting (ex. brightness, contrast, color setting) and the setting will be stored into the system EEPROM.
How is this memory write protected?	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 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

System Flash ROM	MXIC MX25L3206EM2I-12G
Size	32Mbit
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

USB Hub EEPROM	ST M24C32
Size	32Kbit
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 USB Hub setting
How is data input to this memory?	Factory burnt data or via vendor-provided tool to update.

How is this memory write protected?	Software write protected

PD controller Flash ROM	MXIC MX25L8006EM1I-12G
Size	8Mbit
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.