Statement of Volatility – Dell U4919DW Monitor

The purpose of this document is to certify that the Dell U4919DW 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 U4919DW 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 U4919DW monitor.

System EEPROM	AT24C256C-SSHL-T
Size	256Kbits
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 settings (OSD)
How is data input to this memory?	Controls the OSD menu and changes OSD settings (ex. brightness, contrast, color settings) and the setting will be stored into system EEPROM.
How is this memory write protected?	Software write protected

HDMI EDID EEPROM	ST M24C02
Size	2Kbits
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	W25Q128FVSIG
Size	128Mbits
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 M24C16
Size	16Kbits
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

2018 – 10 A00