

Statement of Volatility - Dell 1708FPf, 1908FPf Monitor

The purpose of this document is to certify that Dell's XXXX 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 XXXX 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 Dell XXXX monitor.

Flash ROM	NA
Size	16 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 firmware file
How is this memory write protected?	Software write protected

DDR SDRAM	NA
Size	8x16 Mbit
Type [e.g. Flash PROM, EEPROM]	DDR SDRAM
Volatility	Volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Buffer of video decoder
How is data input to this memory?	Video is received by video decoder chip(CVBS processor) and processed in SDRAM.
How is this memory write protected?	No write protect mechanism

DDR2 SDRAM	NA
Size	32x16 Mbit

Type [e.g. Flash PROM, EEPROM]	DDR2 SDRAM
Volatility	Volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Buffer for video processing
How is data input to this memory?	Video is received by monitor core chip and processed in SDRAM.
How is this memory write protected?	No write protect mechanism

System EEPROM	AT24C04N
Size	4Kbit
Type [e.g. Flash PROM, EEPROM]	EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	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

VGA EDID EEPROM	AT24C02AN
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	To store VGA EDID
How is data input to this memory?	Writing EDID requires a vendor-provided tool and an specific VGA cable.
How is this memory write protected?	Hardware and software write protected

DVI EDID EEPROM	AT24C02AN
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	To store DVI EDID
How is data input to this memory?	Writing EDID requires a vendor-provided tool and an specific DVI cable.
How is this memory write protected?	Hardware write protected

Flash ROM	SST25LF020A
Size	2M
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 firmware
How is this memory write protected?	Hardware write protected