



Statement of Volatility – Dell U3011 Monitor

The purpose of this document is to certify that Dell's U3011 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 U3011 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 U3011 monitor.

Flash ROM	A25L016M
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	NT5TU32M16CG
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	M24C64
Size	64Kbit
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	M24LC02B
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 a specific VGA cable.

How is this memory write protected?	Hardware and software write protected
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DVI EDID EEPROM	M24LC02B
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 a specific DVI cable.
How is this memory write protected?	Hardware write protected

Flash ROM	MX25L1605DM2I
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
How is this memory write protected?	Hardware 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.