DELLEMC

Statement of Volatility – Dell PowerEdge R940xa

Dell PowerEdge R940xa contain both volatile and non-volatile (NV) components. Volatile components lose their data immediately upon removal of power from the component. Non-volatile components continue to retain their data even after the power has been removed from the component. R9Configuration option information (pertinent to options such as microprocessors, remote access controllers, and storage controllers) is available by component separately. The following NV components are present in the PowerEdge R940xa servers.

Item	Type (e.g. Flash PROM, EEPROM)	Can user programs or operating system write data to it during normal operation?
Planer		
PCH Internal CMOS RAM	Battery-backed CMOS RAM	No
BIOS Password	Battery-backed CMOS RAM	Yes
BIOS SPI Flash	SPI Flash	No
BIOS Recovery SPI Flash	SPI Flash	No
iDRAC SPI Flash	SPI Flash	No
BMC EMMC	eMMC NAND Flash	No
CPU Vcore Regulators	ROM	No
CPU Vmem Regulators	ROM	No
System CPLD RAM	RAM	No
System CPLD FLASH	RAM	No
System Memory: RDIMM and LRDIMM	DRAM	Yes
System Memory: NVDIMMM-N	Flash – NVDIMM	No
Internal USB Key	Flash	Yes
CPU	Cache + registers	Yes
iDRAC DDR	DRAM	No
iDRAC	Cache + registers	No
PIROM	EEPROM	no
8x2.5 - inch Backplane		
SEP internal flash	Flash	No
SEP internal EEPROM	EEPROM	No

Item	Type (e.g. Flash PROM, EEPROM)	Can user programs or operating system write data to it during normal operation?
x32 Config: 24x2.5 - inch SAS EXP/Backplane + 8x2.5 - inch Backplane		
For x24 - EXPANDER FRU	EEPROM	No
For x24 - EXP ROM	FLASH	No
For x24 - BP FRU	EEPROM	No
For x8 - SEP internal flash	Flash	No
For x8 - SEP internal EEPROM	EEPROM	No
H730P, H740P, H840 PERCs		
NVSRAM	NVSRAM	No
FRU	FRU	No
SPD	SPD	No
Flash	Flash	No
Backup Flash	Backup Flash	No
SDRAM	SDRAM	No
H330 PERC		
NVSRAM	NVSRAM	No
FRU	FRU	No
1-Wire EEPROM	1-Wire EEPROM	No
Serial Boot ROM	Serial Boot ROM	No
Flash	Flash	No
HBA330 PERC		
NVSRAM	NVSRAM	No
FRU	FRU	No
Serial Boot ROM	Serial Boot ROM	No
Flash	Flash	No
Left Control Panel with Quick Sync 2		
Microcontroller	SPI Flash	No
Left Status Control Panel		
Microcontroller	Flash	No

Item	Type (e.g. Flash PROM, EEPROM)	Can user programs or operating system write data to it during normal operation?
Right Ear		
SPI Flash	SPI Flash	No
TPM		
Trusted Platform Module (TPM)	EEPROM	Yes
ACE (IDSDM - vFlash)		
vFlash (uSD)	NAND flash	yes
iDSDM (uSD1, uSD2)	NAND Flash	Yes
SPI Flash	SPI Flash	SPI flash is only indirectly connected to iDRAC. iDRAC can read any address in the SPI flash, but may only write the primary firmware storage area as a part of a firmware update procedure.
BOSS		
SPI FLASH	FLASH EEPROM	No
TFRU	FLASH EEPROM	Yes
LCD Bezel		
Microcontroller	Internal Flash	No
PSU		
Microcontroller	Flash PROM and EEPROM	Yes

NOTE: For any information that you may need, direct your questions to your Dell Marketing contact.