

Letter of Volatility for AKD Drives

Kollmorgen Corporation (“Kollmorgen”) declares that the AKD drives have memory devices as shown in the table below. The non-volatile memory that may contain user settings and data may be cleared as indicated:

AKD Model No. Format: AKD-x0xx0x-xxxx-xxxx
(x's are alphanumeric character place holders)

Volatile Memory

Type	Model(s)	Size	User Accessible/ Definable	Purpose	Method of Clearing
SDRAM ¹	All AKD	8Mx16	yes	Firmware memory & data buffering	Remove power
DDR3 RAM ⁵	AKD- M 0xx0x- MC xx-xxxx AKD- M 0xx0x- M1 xx-xxxx	64Mbitx32	yes	Random Access Memory for code execution & temporary data storage	Remove power

Non-Volatile Memory

Type	Model(s)	Size	User Accessible/ Definable	Purpose	Method of Clearing
Flash ¹	All AKD	65M	yes	Motor parameters, gains, feedback loop	Reset to factory defaults via GUI
EEPROM ¹	All AKD	2K	no	Ctrl. Bd. Configuration s/w limits and ID	none
NVRAM ²	All <u>except</u> AKD- P 0xx0x- NA xx-xxxx	512x8	yes	User program data	Load new program
EEPROM ³	All AKD	128x8	no	Pwr. Bd. Configuration s/w limits and ID	none
EEPROM ⁴	AKD- I 0xx0x- IC xx-xxxx	1k	no	Product serial number	none
Flash ⁵	AKD- M 0xx0x- MC xx-xxxx	512Mbit	yes	Boot code storage	Reset to factory defaults via Web Server/GUI
EEPROM ⁵	AKD- M 0xx0x- M1 xx-xxxx	8kbit	no	Configuration, ID, etc	none
NVRAM ⁵		256kbit	yes	User Data	Clear via customer application software

Removable Media

Type	Model(s)	Size	User Accessible/ Definable	Purpose	Method of Clearing
SD Card	AKD- M 0xx0x- MC xx-xxxx	Determined			
Connector ⁵	AKD- M 0xx0x- M1 xx-xxxx	by User	yes	User Data Storage	Reformat SD card via web server on PDMM, or in offline computer

^{1, 2, 3, 4, 5}For factory reference

Kollmorgen Corporation

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