

Flash Cross Reference Guide

		Competitor						Winbond		
Density (bits)	Org. (bits)	Company	Part No.	Voltage	Speed (ns)	Description	Package Type	Equivalent Part No.	Note	
512K	64K*8	AMD	AM28F512-70/90-JC	12V/ 5V	70, 90	Bulk Erase Flash	PLCC	W29EE512P-70/90	Same pinout except Vpp pin, need software changes	
			AM28F512-70/90-EC	12V/ 5V	70, 90	Bulk Erase Flash	TSOP (8x20)	W29EE512T-70/90	Same pinout except Vpp pin, need software changes	
		Atmel	AT29C512-70/90/12/15-JC	5V ONLY	70, 90, 120, 150	Page Write Flash	PLCC	W29EE512P-70/90	100% drop-in replacement	
			AT29C512-70/90/12/15-TC	5V ONLY	70, 90, 120, 150	Page Write Flash	TSOP (8x20)	W29EE512T-70/90	100% drop-in replacement	
			AT49F512-70/90-JC	5V ONLY	70, 90	Flash (Bulk Erase + Boot Sector)	PLCC	W29EE512P-70/90	Same package, pinout and software command, different sector size	
		ST Micro	AT49F512-70/90-TC	5V ONLY	70, 90	Flash (Bulk Erase + Boot Sector)	TSOP (8x20)	W29EE512T-70/90	Same pinout and software command, different sector size	
			M28F512-90-C	12V/ 5V	90	Bulk Erase Flash	PLCC	W29EE512P-70/90	Same pinout except Vpp pin, need software changes	
		SST	SST29EE512-70/90-4C-NH	5V ONLY	70, 90	Page Write Flash	PLCC	W29EE512P-70/90	100% drop-in replacement	
			SST29EE512-70/90-4C-EH	5V ONLY	70, 90	Page Write Flash	TSOP (8x20)	W29EE512T-70/90	100% drop-in replacement	
			SST39SF512-70/90-11C-NHS	5V ONLY	70, 90	Uniform Sector	PLCC	W29EE512P-70/90	Same package, pinout and software command, different sector size	
1M	128K*8	AMD	AM29F010-70/90/120-PC	5V ONLY	70, 90, 120	Uniform 16KB Sector	PDIP	W29EE011-90/15	Same package, pinout and software command, different sector size	
			AM29F010-70/90/120-JC	5V ONLY	70, 90, 120	Uniform 16KB Sector	PLCC	W29EE011P-90/15	Same package, pinout and software command, different sector size	
			AM29F010-70/90/120-EC	5V ONLY	70, 90, 120	Uniform 16KB Sector	TSOP (8X20)	W29EE011T-90/15	Same package, pinout and software command, different sector size	
			AM28F010-70/90/120/150/200-PC	12V/ 5V	70, 90, 120, 150	Bulk Erase Flash	PDIP	W29EE011-90/15	Same pinout except Vpp pin, need software changes	
			AM28F010-70/90/120/150/200-JC	12V/ 5V	70, 90, 120, 150	Bulk Erase Flash	PLCC	W29EE011P-90/15	Same pinout except Vpp pin, need software changes	
			AM28F010-70/90/120/150/200-EC	12V/ 5V	70, 90, 120, 150	Bulk Erase Flash	TSOP (8X20)	W29EE011T-90/15	Same pinout except Vpp pin, need software changes	
		Atmel	AT29C010A-90/12/15-PC	5V ONLY	70, 90, 120, 150	Page Write Flash	PDIP	W29EE011-90/15	100% drop-in replacement	
			AT29C010A-90/12/15-JC	5V ONLY	70, 90, 120, 150	Page Write Flash	PLCC	W29EE011P-90/15	100% drop-in replacement	
			AT29C010A-90/12/15-TC	5V ONLY	70, 90, 120, 150	Page Write Flash	TSOP (8X20)	W29EE011T-90/15	100% drop-in replacement	
			AT49F010-70/90-PC	5V ONLY	70, 90	Boot Block/ Bulk Erase	PDIP	W29EE011-90/15	Same package, pinout and software command, different sector size	
	AT49F010-70/90-JC		5V ONLY	70, 90	Boot Block/ Bulk Erase	PLCC	W29EE011P-90/15	Same package, pinout and software command, different sector size		
	AT49F010-70/90-TC		5V ONLY	70, 90	Boot Block/ Bulk Erase	TSOP (8X20)	W29EE011T-90/15	Same package, pinout and software command, different sector size		
	AT49F001N(T)-70/90/12-PC		5V ONLY	70, 90, 120	Boot Block	PDIP	W29EE011-90/15	Same package, pinout and software command, different sector size		
	AT49F001N(T)-70/90/12-JC		5V ONLY	70, 90, 120	Boot Block	PLCC	W29EE011P-90/15	Same package, pinout and software command, different sector size		
	AT49F001N(T)-70/90/12-TC	5V ONLY	70, 90, 120	Boot Block	TSOP (8X20)	W29EE011T-90/15	Same package, pinout and software command, different sector size			
	64K*16	AT49LV1025-70/90-JC	3.3V ONLY	70, 90	Boot Block	PLCC	W49L102P-70/12	100% drop-in replacement		
		AT49LV1024-70/90-VC	3.3V ONLY	70, 90	Boot Block	TSOP (10x14)	W49L102Q-70/12	100% drop-in replacement		
				M28F101-70/90-P	12V/ 5V	70, 90	Bulk Erase Flash	PDIP	W29EE011-90/15	Same pinout except Vpp pin, need software changes

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	128K*8	ST Micro	M28F101-70/90-K	12V/ 5V	70, 90	Bulk Erase Flash	PLCC	W29EE011P-90/15	Same pinout except Vpp pin, need software changes
			M28F101-70/90-N	12V/ 5V	70, 90	Bulk Erase Flash	TSOP (8X20)	W29EE011T-90/15	Same pinout except Vpp pin, need software changes
		SST	SST29EE010-90/120-4C-PH	5V ONLY	90, 120	Page Write Flash	PDIP	W29EE011-90/15	100% drop-in replacement
			SST29EE010-90/120-4C-NH	5V ONLY	90, 120	Page Write Flash	PLCC	W29EE011P-90/15	100% drop-in replacement
			SST29EE010-90/120-4C-EH	5V ONLY	90,120	Page Write Flash	TSOP (8X20)	W29EE011T-90/15	100% drop-in replacement
			SST39SF010-70/90-11C-PH	5V ONLY	70, 90	Uniform Sector	PDIP	W29EE011-90/15	Same package, pinout and software command, different sector size
			SST39SF010-70/90-11C-NH	5V ONLY	70, 90	Uniform Sector	PLCC	W29EE011P-90/15	Same package, pinout and software command, different sector size
SST39SF010-70/90-11C-EH	5V ONLY	70, 90	Uniform Sector	TSOP (8X20)	W29EE011T-90/15	Same package, pinout and software command, different sector size			
2M	256K*8	AMD	AM29F002NT/B-70/90-PC	5V ONLY	70, 90	Boot Block Flash	PDIP	W29C020C-90B	Same pinout except RESET No. pin, same package, software command, different sector size
			AM29F002NT/B-70/90-JC	5V ONLY	70, 90	Boot Block Flash	PLCC	W29C020CP-90B	Same pinout except RESET No. pin, same package, software command, different sector size
			AM29F002NT/B-70/90-EC	5V ONLY	70, 90	Boot Block Flash	TSOP (8x20)	W29C020CT-90B	Same pinout except RESET No. pin, same package, software command, different sector size
			AM28F020-70/90-PC	12V/ 5V	70, 90	Bulk Erase Flash	PDIP	W29C020C-90B	Same pinout except Vpp pin, need software changes
			AM28F020-70/90-JC	12V/ 5V	70, 90	Bulk Erase Flash	PLCC	W29C020CP-90B	Same pinout except Vpp pin, need software changes
			AM28F020-70/90-EC	12V/ 5V	70, 90	Bulk Erase Flash	TSOP (8x20)	W29C020CT-90B	Same pinout except Vpp pin, need software changes
		Atmel	AT29C020-12/15-PC	5V ONLY	120, 150	Page Write Flash	PDIP	W29C020C-90B	Same package, pinout and software command, different sector size
			AT29C020-12/15-JC	5V ONLY	120, 150	Page Write Flash	PLCC	W29C020CP-90B	Same package, pinout and software command, different sector size
			AT29C020-12/15-TC	5V ONLY	120,150	Page Write Flash	TSOP (8x20)	W29C020CT-90B	Same package, pinout and software command, different sector size
			AT49F020-90/12/15-PC	5V ONLY	90, 120, 150	Boot Block/ Bulk Erase	PDIP	W29C020C-90B	Same package, pinout and software command, different sector size
			AT49F020-90/12/15-JC	5V ONLY	90, 120, 150	Boot Block/ Bulk Erase	PLCC	W29C020CP-90B	Same package, pinout and software command, different sector size
			AT49F020-90/12/15-TC	5V ONLY	90, 120, 150	Boot Block/ Bulk Erase	TSOP (8x20)	W29C020CT-90B	Same package, pinout and software command, different sector size
		ST Micro	M28F201-70/90-P	12V/ 5V	70, 90	Bulk Erase Flash	PDIP	W29C020C-90B	Same pinout except Vpp pin, need software changes
			M28F201-70/90-K	12V/ 5V	70, 90	Bulk Erase Flash	PLCC	W29C020CP-90B	Same pinout except Vpp pin, need software changes
			M28F201-70/90-N	12V/ 5V	70, 90	Bulk Erase Flash	TSOP (8x20)	W29C020CT-90B	Same pinout except Vpp pin, need software changes
		SST	SST29EE020A-120/150-11C-PH	5V ONLY	120, 150	Page Write Flash	PDIP	W29C020C-90B	100% drop-in replacement
			SST29EE020A-120/150-11C-NH	5V ONLY	120, 150	Page Write Flash	PLCC	W29C020CP-90B	100% drop-in replacement
			SST29EE020A-120/150-11C-EH	5V ONLY	120, 150	Page Write Flash	TSOP (8x20)	W29C020CT-90B	100% drop-in replacement
SST39SF020-70/90-11C-PH	5V ONLY		70, 90	Uniform Sector	PDIP	W29C020C-90B	Same package, pinout and software command, different sector size		
SST39SF020-70/90-11C-NH	5V ONLY		70, 90	Uniform Sector	PLCC	W29C020CP-90B	Same package, pinout and software command, different sector size		
			AM29F040B-70/90/120-JC	5V ONLY	70, 90, 120	Uniform 64KB Sector	PLCC	BM29F040-90AC	100% drop-in replacement

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4M	512K*8	AMD	AM29F040B-70/90/120-EC	5V ONLY	70, 90, 120	Uniform 64KB Sector	TSOP (8x20)	BM29F040-90TC	100% drop-in replacement
			AM29F040B-70/90/120-PC	5V ONLY	70, 90, 120	Uniform 64KB Sector	PDIP	BM29F040-90NC	100% drop-in replacement
		Atmel	AT29C040A-12/15-PC	5V ONLY	120, 150	Page Write Flash	PDIP	W29C040-90	Same package and pinout
			AT29C040A-12/15-TC	5V ONLY	120, 150	Page Write Flash	TSOP (8x20)	W29C040T-90	Same package and pinout
		ST Micro	M29F040B-45/70-N	5V ONLY	45, 70	Uniform 64KB Sector	TSOP (8x20)	BM29F040-90TC	100% drop-in replacement
			M29F040B-55/70/K	5V ONLY	55, 70	Uniform 64KB Sector	PLCC	BM29F040-90AC	100% drop-in replacement
			M29F040B-70-P	5V ONLY	70	Uniform 64KB Sector	PDIP	BM29F040-90NC	100% drop-in replacement
			M28F411/421-120/150-N	12V/ 5V	120, 150	Boot Block Flash	TSOP (8x20)	W29C040T-90	Same package and pinout, need software changes.
		SST	SST28SF040A-120/150-11C-PH	5V ONLY	120, 150	Page Write Flash	PDIP	W29C040-90	100% drop-in replacement
			SST28SF040A-120/150-12C-NH	5V ONLY	120, 150	Page Write Flash	PLCC	W29C040P-90	100% drop-in replacement
			SST28SF040A-120/150-11C-EH	5V ONLY	120, 150	Page Write Flash	TSOP (8x20)	W29C040T-90	100% drop-in replacement

Note: This competitive data was obtained from public sources. There could be minor differences on AC/DC electrical spec and features. Winbond is not responsible for any changes or errors in this information.

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