



32-bit Flash-based ARM Microcontrollers

Product Name	ARM Core	MMU / MPU	Clock Speed (MHz)	SRAM (Bytes)	Cache Memory (Bytes)	Flash (Bytes)	In-System Programming	External Bus Interface	SDRAM Interface	NAND Flash	Peripheral ECC	FSMC / UART	SP1 / TWI / SSC	MCU	SDIO	CAN	USB Device (Full/High Speed)	USB Host (Full/High Speed)	Ethernet MAC (10/100)	CPU Controller	Triple DES Engine	AES Engine	Image sensor interface	15-bit Timers	PWM Controller	Parallel Interface	RTC / RTT	10-bit ADC Channel	12-bit ADC Channel	Power-On Reset	On-chip PC Detection	Crystal Oscillator	High Current Pads	I/O Pins	I/O Voltage domain (V)	Single Supply	Package	Status			
SAM3U1C	Cortex-M3	-/1	96	20K	-	64K	Y	1	-	1/1	13	1	3	4/1/1	1	Y	-	HS	-	-	-	-	-	3	4	1	1	1/1	4	4	1	1	2	2/2	4	57	1.62/3.6	Y	QFP100/BGA100	S	
SAM3U2C	Cortex-M3	-/1	96	36K	-	128K	Y	1	-	1/1	13	1	3	4/1/1	1	Y	-	HS	-	-	-	-	-	3	4	1	1	1/1	4	4	1	1	2	2/2	4	57	1.62/3.6	Y	QFP100/BGA100	S	
SAM3U4C	Cortex-M3	-/1	96	52K	-	256K	Y	1	-	1/1	13	1	3	4/1/1	1	Y	-	HS	-	-	-	-	-	3	4	1	1	1/1	4	4	1	1	2	2/2	4	57	1.62/3.6	Y	QFP100/BGA100	S	
SAM3U1E	Cortex-M3	-/1	96	20K	-	64K	Y	1	-	1/1	17	1	4	5/2/1	1	Y	-	HS	-	-	-	-	-	3	4	1	1	1/1	8	8	1	1	2	2/2	4	96	1.62/3.6	Y	QFP144/BGA144	S	
SAM3U2E	Cortex-M3	-/1	96	36K	-	128K	Y	1	-	1/1	17	1	4	5/2/1	1	Y	-	HS	-	-	-	-	-	3	4	1	1	1/1	8	8	1	1	2	2/2	4	96	1.62/3.6	Y	QFP144/BGA144	S	
SAM3U4E	Cortex-M3	-/1	96	52K	-	256K	Y	1	-	1/1	17	1	4	5/2/1	1	Y	-	HS	-	-	-	-	-	3	4	1	1	1/1	8	8	1	1	2	2/2	4	96	1.62/3.6	Y	QFP144/BGA144	S	
SAM7L64	7TDMI	-	36	6K	-	64K	Y	-	-	-	11	1	2	1/1/-	-	N	-	-	-	-	-	-	-	3	4	1	1	1/-	4	-	1	1	2	1/1	4	80	1.8 to 3.6	Y	QFP128/BGA144	P	
SAM7L128	7TDMI	-	36	6K	-	128K	Y	-	-	-	11	1	2	1/1/-	-	N	-	-	-	-	-	-	-	3	4	1	1	1/-	4	-	1	1	2	1/1	4	80	1.8 to 3.6	Y	QFP128/BGA144	P	
SAM7SL16	7TDMI	-	37	4K	-	16K	Y	-	-	-	15	1	2	1/2/1	-	N	-	-	-	-	-	-	-	3	4	1	1	1/1	2	-	1	1	2	1/1	4	28	1.8 to 3.6	Y	QFN48	D	
SAM7SL161	7TDMI	-	37	4K	-	16K	Y	-	-	-	15	1	2	1/2/1	-	N	-	-	-	-	-	-	-	3	4	1	1	1/1	4	-	1	1	2	1/1	4	36	1.8 to 3.6	Y	QFP64/QFN64	D	
SAM7SL32	7TDMI	-	37	8K	-	32K	Y	-	-	-	15	1	2	1/2/1	-	N	-	-	-	-	-	-	-	3	4	1	1	1/1	2	-	1	1	2	1/1	4	28	1.8 to 3.6	Y	QFN48	D	
SAM7SL321	7TDMI	-	37	8K	-	32K	Y	-	-	-	15	1	2	1/2/1	-	N	-	-	-	-	-	-	-	3	4	1	1	1/1	4	-	1	1	2	1/1	4	36	1.8 to 3.6	Y	QFP64/QFN64	D	
SAM7SL64	7TDMI	-	37	8K	-	64K	Y	-	-	-	15	1	2	1/2/1	-	N	-	-	-	-	-	-	-	3	4	1	1	1/1	2	-	1	1	2	1/1	4	28	1.8 to 3.6	Y	QFN48	D	
SAM7SL641	7TDMI	-	37	8K	-	64K	Y	-	-	-	15	1	2	1/2/1	-	N	-	-	-	-	-	-	-	3	4	1	1	1/1	4	-	1	1	2	1/1	4	36	1.8 to 3.6	Y	QFP64/QFN64	D	
SAM7S16	7TDMI	-	55	4K	-	16K	Y	-	-	-	9	1	1	1/1/1	-	N	-	-	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	21	1.8/3.3	Y	QFP48/QFN48	S	
SAM7S161	7TDMI	-	55	4K	-	16K	Y	-	-	-	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	32	1.8/3.3	Y	QFP64	S	
SAM7S32	7TDMI	-	55	8K	-	32K	Y	-	-	-	9	1	1	1/1/1	-	N	-	-	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	21	1.8/3.3	Y	QFP48/QFN48	P	
SAM7S321	7TDMI	-	55	8K	-	32K	Y	-	-	-	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	32	1.8/3.3	Y	QFP64/QFN64	P	
SAM7S64	7TDMI	-	55	16K	-	64K	Y	-	-	-	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	32	1.8/3.3	Y	QFP64/QFN64	P	
SAM7S128	7TDMI	-	55	32K	-	128K	Y	-	-	-	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	32	1.8/3.3	Y	QFP64/QFN64	P	
SAM7S256	7TDMI	-	55	64K	-	256K	Y	-	-	-	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	32	1.8/3.3	Y	QFP64/QFN64	P	
SAM7S512	7TDMI	-	55	64K	-	512K	Y	-	-	-	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	32	1.8/3.3	Y	QFP64/QFN64	P	
SAM7SE32	7TDMI	-/1	55	8K	-	32K	Y	1	1	1/1	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	88	1.8/3.3	Y	QFP128/BGA144	P	
SAM7SE256	7TDMI	-/1	55	32K	-	256K	Y	1	1	1/1	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	88	1.8/3.3	Y	QFP128/BGA144	P	
SAM7SE512	7TDMI	-/1	55	32K	-	512K	Y	1	1	1/1	11	1	2	1/1/1	-	N	-	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	88	1.8/3.3	Y	QFP128/BGA144	P	
SAM7X128	7TDMI	-	55	32K	-	128K	Y	-	-	-	13	1	2	2/1/1	-	N	1	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	62	3.3	Y	QFP100/BGA100	P	
SAM7X256	7TDMI	-	55	64K	-	256K	Y	-	-	-	13	1	2	2/1/1	-	N	1	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	62	3.3	Y	QFP100/BGA100	P	
SAM7X512	7TDMI	-	55	128K	-	512K	Y	-	-	-	13	1	2	2/1/1	-	N	1	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	62	3.3	Y	QFP100/BGA100	P	
SAM7XC128	7TDMI	-	55	32K	-	128K	Y	-	-	-	17	1	2	2/1/1	-	N	1	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	62	3.3	Y	QFP100/BGA100	P	
SAM7XC256	7TDMI	-	55	64K	-	256K	Y	-	-	-	17	1	2	2/1/1	-	N	1	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	62	3.3	Y	QFP100/BGA100	P	
SAM7XC512	7TDMI	-	55	128K	-	512K	Y	-	-	-	17	1	2	2/1/1	-	N	1	FS	-	-	-	-	-	3	4	1	1	-/1	8	-	1	1	1	1/1	4	62	3.3	Y	QFP100/BGA100	P	
SAM7A3	7TDMI	-/1	60	32K	-	256K	-	-	-	-	19	1	3	2/1/2	-	N	2	FS	-	-	-	-	-	9	8	1	1	-/1	16	-	3	-	1	1/1	-	62	3.3	Y	QFP100	P	
SAM9XE128	926EJ-S	1/-	180	16K	16K+8K	128K	Y	1	1	1/1	24	1	5	2/2/1	1	Y	-	FS	2FS	1	-	-	-	1	6	-	1	1	-/1	4	-	2	1	1	2/2	3	96	1.8/3.3	N	QFP208/BGA217	S
SAM9XE256	926EJ-S	1/-	180	32K	16K+8K	256K	Y	1	1	1/1	24	1	5	2/2/1	1	Y	-	FS	2FS	1	-	-	-	1	6	-	1	1	-/1	4	-	2	1	1	2/2	3	96	1.8/3.3	N	QFP208/BGA217	S
SAM9XE512	926EJ-S	1/-	180	32K	16K+8K	512K	Y	1	1	1/1	24	1	5	2/2/1	1	Y	-	FS	2FS	1	-	-	-	1	6	-	1	1	-/1	4	-	2	1	1	2/2	3	96	1.8/3.3	N	QFP208/BGA217	S



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