

S1C88 Family Products overview

Products	Display	Clock frequency			Supply current				Supply voltage [V]	Memory		External expansion Max. (Byte)	I/O			Timer				SIO		A/D converter	Comparator	Sound generator	SVD *1	Interrupts		Form of delivery	
	LCD Driver segxcom	High-speed [Hz] (Max.)	Normal-speed [Hz] (Typ.)	Low-speed [Hz] (Max.)	Sleep [μA] (Typ.)	Halt [μA] (Typ.)	32kHz Operating [μA] (Typ.)	In high-speed oscillation [μA] (Typ.)		ROM [Byte]	RAM [Byte]		Input port	Output port	I/O port	Programmable 8-bit	Stopwatch	Watchdog timer	Clock	Asynchronous	Clock synchronous					External	Internal	Package	Chip
S1C88300 series	S1C88300 series microcontrollers are equipped with ROM, RAM, LCD driver, serial I/Os, timers and external bus-line. Easy connection to external ROM, RAM, peripherals and LCD drivers. Especially suitable for portable equipments such as high-performance data banks and pager.																												
S1C88349	51 X 32 67 X 8/16	8.2M	4.2M	32.768k	0.3	1.5	9.0	1100 (4M)	1.8 to 3.5/Low-speed 2.4 to 5.5/Normal-speed 3.5 to 5.5/High-speed	48K	2K	2M	10	34 ^{*2}	16 ^{*2}	2 ^{*3}	○	○	○	1 ^{*4}	4 ^{*5}	2	○	○	3	13	QFP21-176	○	
S1C88600 series	This is a series of microcontrollers complete with ROM, RAM, LCD driver and various timer functions. With a built-in KANJI ROM, display of KANJI is easy without an external ROM.																												
S1C88649	80 X 8/16	4.2M	–	32.768k	1.0	2.5	7.0	670(4M)	1.8 to 3.6	48K +192K	8K	2M	8	25	16	4 ^{*3}	○	○	○	1 ^{*4}	–	–	○	○	8	18	–	○	
S1C88650	126 X 8/16/32	8.2M	–	32.768k	1.0	2.5	9.0	1700(8M)	1.8 to 3.6	48K +896K	8K	3M	8	26	16	8 ^{*3}	–	○	○	1 ^{*4}	–	–	–	○	8	19	QFP22-256 VFBGA10H-240	○	
S1C88655	128 X 64	8.2M	–	32.768k	1.0	2.0	5.0	800(8M)	1.8 to 3.6	48K +512K	8K	4M	0	26	24	8 ^{*3}	–	○	○	2 ^{*4}	–	–	–	○	8	26	TCM ^{*6}	○ ^{*7}	
S1C8F626	96 X 8/16/32	8.2M	–	32.768k	1.0	2.5	10	1800(8M)	1.8 to 3.6	48K +192K (Flash) ^{*8}	8K	–	8	–	24	8 ^{*3}	–	○	○	2 ^{*4}	–	–	–	○	8	29	QFP21-216 VFBGA10H-240	○	
S1C88800 series	This series of microcontrollers integrates ROM, RAM, dot matrix LCD driver, serial I/O, and timers.																												
S1C88848	51 X 32 66 X 7 67 X 8/16	8.2M	–	32.768k	1.0	1.7	4.0	700(8M)	1.8 to 5.5	48K	1.5K	–	10	5	8	4 ^{*3}	○	○	○	1 ^{*4}	–	–	○	○	3	15	QFP15-128	○ ^{*9}	
S1C88816	72 X 32 88 X 8/16	8.2M	4.2M	32.768k	0.45	1.5	7.0	900(4M)	1.8 to 3.5/Low-speed 2.4 to 5.5/Normal-speed 3.5 to 5.5/High-speed	116K	8K	–	9	7	16	2 ^{*3}	○	○	○	1 ^{*4}	4 ^{*5}	–	○ ^{*10}	○	3	14	VFBGA10U-121 PFBGA12U-180	○	

*1: SVD is an abbreviation for Supply Voltage Detector.

*2: It doubles as external bus terminal.

*3: Two 8 bits serve as a 16-bit timer.

*4: Asynchronous or clock synchronous system can be selected by software.

*5: 10 bits successive-approximation type and serves as general-purpose I/O.

*6: Tape Carrier Module. It is the package form which mounted passive parts, such as resistance and a capacitor, on COF.

*7: Au Bump

*8: This product uses SuperFlash® technology licensed from Silicon Storage Technology, Inc.

*9: Pad pitch is 80μm.

*10: A melody generator is included.