

S1C17 Family Products overview																																										
Products	Display		Clock frequency			Supply current				Supply voltage [V]	Memory					Bus		I/O			Timer						SIO				A/D converter	DMA	Multiplier/MAC	Divider	USB	Form of delivery		Remarks				
	LCD Controller		High-speed [Hz] (Max.)	Low-speed [Hz] (Typ.)	Built-in oscillator (Hz) (Typ.)	Sleep [A] (Typ.)	Halt [A] (Typ.)	Operating [A] (Typ.)	1MHz operating [A] (Typ.)		Flash ROM [Byte]	Mask ROM [Byte]	RAM [Byte]	VRAM [Byte]	Backup RAM [Byte]	Address bus	Data bus	Input port	I/O port	Support of multiple voltages *5	8-bit timer	16-bit timer	16-bit PWM timer	Stopwatch	Watchdog timer	Clock	Real-time clock	UART (IrDA 1.0)	SPI	I ² C master						I ² C slave	Remote controller transmission and reception		Package	Chip		
	with built-in VRAM [bpp]	with external VRAM [bpp]																																								
S1C17500 series		[High-performance] The 16-bit Microcontrollers allowing the 32-bit level sophisticated processing to perform. Suitable for a wide range of whiteware products and other home appliances due to the utilization of various types of built-in interfaces such as USB, UART, SPI, I ² C, I ² S, A/D converter, and remote controller transmission circuits, as well as the improved user interface using music, audio, touch switches, etc.																																								
S1C17501	-	-	48M	32.768k	-	4.0μ	20m (48MHz)	40m (48MHz)	-	3.0 to 3.6	96K *6 128K *6	-	4K	-	2K	23	8/16 *3	8	83	-	6	2	1	-	1	-	○ *2	1	2	1	-	○	8	-	○	-	FS2.0	TQFP14-100 *6 TQFP15-128 *6	-			
S1C17502	-	-	48M	32.768k	-		TBD		-	2.7 to 5.5	192K 256K	-	16K	-	16	23	8/16	16	TBD	○	6	4	3	-	1	-	○ *2	1	2	1	-	○	16	4	○	○	FS2.0	TQFP15-128 TQFP24-144 *7	-	I/F of LCD-DR only motor controllers		
S1C17503	-	-	33M	32.768k	-	5.0μ	15m (33MHz)	19m (33MHz)	-	2.7 to 5.5	128K	-	16K	-	16	23	8/16 *3	4	95	○	4	1	2	-	1	-	○ *2	1	2 *4		1	1	1	○	4	4	○	○	-	TQFP14-100 TQFP15-128 QFP5-128	-	I/F of LCD-DR only
S1C17554	-	-	24M	32.768k	-		TBD			1.65 to 1.95 (Core) 1.65 to 5.5 (I/O)	128K *9	-	16K	-	-	-	-	-	34	-	-	5	4	○	○	○	-	2	3	○	○	○	4	-	○	○	-	TQFP13-64 WCSP-48	-			
S1C17800 series		[High-performance] The 16-bit Microcontrollers allowing the 32-bit level sophisticated processing to perform. The device having the LCDC can display the 1-bpp maximum VGA monochrome images. Also suitable for controlling the operation panels of whiteware products and other various types of products due to the utilization of a wide array of built-in interfaces such as USB, various types of serial interfaces, and A/D converter, as well as the improved user interface using display, music, touch panel, etc.																																								
S1C17801	1 (120 X 120)	4 (QVGA) 1 (VGA)	48M	32.768k	-	4.0μ	20m (48MHz)	40m (48MHz)	-	3.0 to 3.6	128K	-	4K		2K *1	23	8/16	8	83	-	6	2	1	-	1	-	○ *2	1	2	1	-	○	8	-	○	-	FS2.0	TQFP15-128 PFBGA7U-144	-	I/F of LCD-DR only		
S1C17802	1 (QVGA)	4 (QVGA) 1 (VGA)	48M	32.768k	-		TBD		-	2.7 to 5.5	192K *7 256K *7	-	16K		16	23	8/16	16	TBD	○	6	4	3	-	1	-	○ *2	1	2	1	-	○	16	4	○	○	FS2.0	TQFP15-128 TQFP24-144 *7	-	I/F of LCD-DR only motor controllers		
S1C17803	1 (QVGA)	4 (QVGA) 1 (VGA)	33M	32.768k	-	5.0μ	15m (33MHz)	19m (33MHz)	-	2.7 to 5.5	128K	-	16K		16	23	8/16 *3	4	95	○	4	1	2	-	1	-	○ *2	1	2 *4		1	1	1	○	4	4	○	○	-	TQFP14-100 TQFP15-128 QFP5-128	-	I/F of LCD-DR only

_: Under development
*1: Also used as the RAM *2: Real-time clock (The battery backed up operation is supported.) *3: The TQFP14-100 has the 8-bit fixed data bus. *4: Universal serial interface (Any of UART, SPI and I²C functions can be selected.) *5: Coexistence of 5V and 3V (and other) different interface voltages is supported.
*6: TQFP14-100(Flash96KB), TQFP15-128(Flash128KB) *7: TQFP15-128(Flash192KB), TQFP24-144(Flash256KB) *8: Built-in a remote controller transmission and reception circuit *9: For evaluation, (typically) 100 rewritings are allowed. For mass production, data is written to ROM by Seiko Epson prior to shipment.