S1C17 Family Products overview

Products	Display	Clock frequency			Supply current				Supply voltage [V]	Memory				I/O	Timer							SIO					R/F converter	A/D converter	Multiplier/Divider	SVD*1	Temparature detection circuit	Form of delivery	
	EPD Driver (TP/BP)	High-speed [Hz] (Max.)	Low-speed [Hz] (Typ.)	Built-in oscillator [Hz] (Typ.)	Sleep [µA] (Typ.)	Halt [µA] (Typ.)	32kHz Operating [µA] (Typ.)	4MHz operating [µA] (Typ.)		Flash ROM [Byte]	Mask ROM [Byte]	RAM [Byte]		I/O port	8-bit timer	16-bit timer	16bit-PWM timer	Stopwatch	Watchdog timer	Clock	Real-time clock	UART	SPI	I²C master	I²C slave	Remote controller transmission and reception						Package	Chip
S1C17F00 series	[Medium and small segment EPD] The product also includes embedded features such as a real-time clock, theoretical regulation, a driver capable of wringing the maximum performance from segmented EPDs, and a temperature sensor. As a result, the device does not simply drive the display, but also corrects temperature effects that could harm display quality making it possible to maximize the characteristics of an e-paper display with a single chip.																															
S1C17F57	64 (2TP/2BP)	4.2M	32.768k	500K/1M/2M	0.12	0.55	20.0	1400	2.0 to 3.6	32K*2	–	2K		29	2	–	2	○	○	○	○	1	1	○	○	–	1	–	○	○	○	TQFP15-128	○

____: Under development

*1: SVD is an abbreviation for Supply Voltage Detector.
*2: During programming in flash memory : 7.0V (Typ.)

Products	EPD Driver (TP/BP)	Supply voltage [V]	EPD Operating voltage [V]	Flash ROM [bit]	Interafces		Built-in oscillator [Hz] (Typ.)	Temparature detection circuit	Power-on reset	Boost power supply circuit	Form of delivery	
					I²C slave	SPI slave					Package	Chip
S1D14F00 series	[Expansion EPD Dr] These driver ICs can expand the segment display domain when coupled with the S1C17F57. Since display circuitry optimized for driving EPDs is built-in, outstanding performance is also demonstrated even when used as a standalone driver IC.											
S1D14F57	256 (2TP/2BP)	1.75 to 5.5	9.15/12.30/15.45	16k*1	○	○	1M	○	○	○	–	○ (TBD)

____: Under development

*1: During programming in flash memory : 7.0V (Typ.)