

Product specifications

Product model number	S1C31W74
CPU core	ARM® Cortex®-M0+ 32-bit RISC processor with multiplier
Flash memory	512 kilobytes
RAM	128 kilobytes
Instruction cache memory	512 bytes
Operating voltage	Guaranteed operating range: 1.8 V - 3.6 V Operating voltage during Flash memory rewrite operations: 2.7 V - 3.6 V Operating voltage during LCD driver use: 2.5 V - 3.6 V
Current consumption	SLEEP mode RTC OFF: 0.4 µA (typical) SLEEP mode RTC ON: 0.9 µA (typical) ⁶⁾ RUN mode: 150 µA/MHz (typical)
LCD driver	2,304 dots max. (72 SEG x 25-32 COM) 1,920 dots max. (80 SEG x 17-24 COM) 1,408 dots max. (88 SEG x 1-16 COM)
I/O ports	71 max.
R/F converter	1 input channels (CR oscillator with 24-bit counters)
Supply voltage detector	1.7 V to 4.3 V, 32 levels
USB	2.0 FS device controller, 1 channel
Serial interfaces	2-channel UART, 1-channel SPI, and 2-channel I2C interfaces QSPI: 1 channel
Package	VFBGA8HX-181 (8 mm x 8 mm with a ball pitch of 0.5 mm) Bare chip with 80 µm (min.) pad pitch