Product specifications

Product number	S1C31W73
CPU core	Arm® Cortex®-M0+ 32-bit RISC processor
Flash memory	384 Kbytes
RAM	32 Kbytes
Operating voltage	1.8 V to 5.5 V
Operating frequency	Max. 33 MHz (VD1 voltage mode: mode 0) Max. 2.1 MHz (VD1 voltage mode: mode 1)
LCD driver	Max. 2,560 dots (80 SEG x 25-32 COM) Max. 2,112 dots (88 SEG x 17-24 COM) Max. 1,536 dots (96 SEG x 1-16 COM)
Serial interfaces	UART & SPI: 2 channels each I2C & QSPI: 1 channel each
USB	2.0 full-speed device controller, 1 ch
A/D converter	12-bit successive-approximation ADC External signal inputs: 7 max. Internal signal inputs: 1 Connect temperature sensor output
Temperature sensor / reference voltage generator circuit	Sensor output can be read by the A/D converter Reference voltage for A/D converter is selectable from 2.0 V, 2.5 V, VDD, and external input
Supply voltage detector	32 levels (1.7 V to 5.0 V)
Timers	16-bit timer: 8 channels 16-bit PWM timer: 2 channels Watchdog timer Real-time clock
I/O ports	Max. 73 bits Universal port multiplexer: 32 bits
Current consumption (typical)	Sleep mode: 0.7 µA RTC mode: 1.2 µA RUN mode: 220 µA/MHz (VD1 voltage mode: mode 0) 150 µA/MHz (VD1 voltage mode: mode 1) LCD driver: 10.6 µA (checker pattern) 3.0 µA (all on)
Shipping form	Bare die with an 80 µm (min.) pad pitch P-LQFP216-2424-0.40 (pin pitch: 0.4mm)