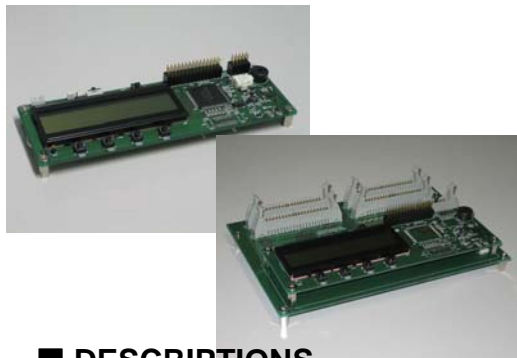# S5U1C6F632T1100
S5U1C6F632T2100 (SVT6F632)

EPSON

EXCEED YOUR VISION

Software eValuation Tool for S1C6F632

- STN LCD panel (display size: 48 x 32 common B/W)
- Temperature sensor / Humidity sensor / Luminance sensor / Pressure sensor
- Extended connector (General purpose I/O port)
- Key input circuit (four keys available)
- Build-in ICE interface (S5U1C6F632T2)

■ DESCRIPTIONS

The S5U1C6F632T1/T2 (SVT6F632: Software eValuation Tool for S1C6F632) are evaluation boards for the S1C6F632 single-chip microcomputer made by Seiko Epson. These boards feature a circuit structure designed for the Weather Center, which is an example of one of S1C6F632's applications. The S1C6F632's internal circuit functions can drive a 48 seg. x 32 com LCD, measure temperature and humidity, and produce a buzzer output. Equipped with an external pressure sensor and an illumination sensor (the S5U1C6F632T1/T2 boards provide power-saving control based on weather forecasts and illumination intensity.

The SVT6F632 comes with two types of boards: S5U1C6F632T1 and S5U1C6F632T2. The S5U1C6F632T1 is capable of standalone operations, while the S5U1C6F632T2 can connect to the In-Circuit Emulator (ICE63:S5U1C63000H) for software debugging. Each board is provided with an expansion connector to allow clients to connect custom boards.

■ FEATURES

● S5U1C6F632T1

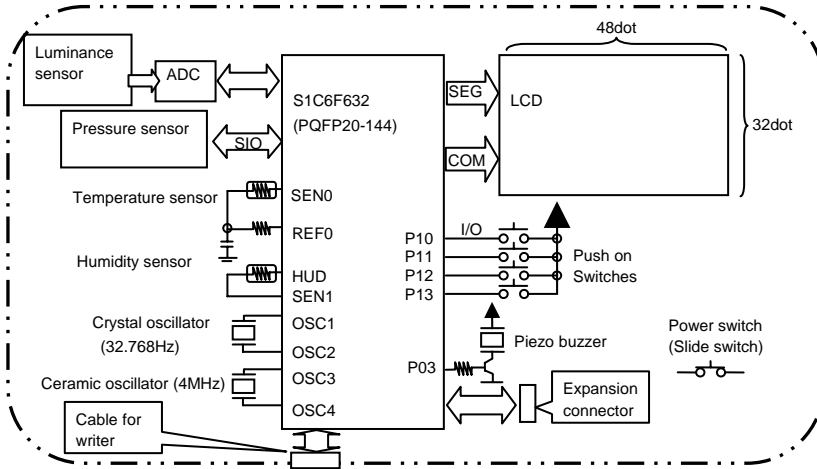|	
1)CPU	S1C6F632 (mask option specification: Standard Type B)
2)Input power supply voltage	+3.0 V(DC), supplied by coin cell (CR2032) or external power source(+5.0V)
3)CPU clock	OSC1: 32.768 Hz (crystal oscillator), OSC3: 4 MHz (ceramic oscillator)
4)Functions/devices	Reset switch, Switch input (4 keys)
	USB-Serial on Board Writer connector (CN1),
	Expansion connector and board pattern (CN2, CN3)
	Temperature and humidity sensors, Pressure sensor, Illumination sensor, Piezo buzzer
	STN LCD panel (128 seg. x 32 com, black and white)
	* Effective display area: 48 seg. x 32 com

● S5U1C6F632T2

1) CPU	S1C6F632 (operated by ICE63)
2) Input power supply voltage	+3.3 V(DC), supplied from ICE63 through I/O cable
3) CPU clock	OSC1: 32.768 Hz, OSC3: 4 MHz (based on oscillation frequency adjustment on ICE63)
4) Functions/devices	Reset switch, Switch input (4 keys)
	Expansion connector and board pattern (CN2, CN3)
	Pressure sensor, Illumination sensor, Piezo buzzer
	STN LCD panel (128 seg. x 32 com, black and white)
	* Effective display area: 48 seg. x 32 com

■ User site list of sample programs (coming soon)

- ・Clock timer
- ・LCD driver
- ・Oscillation circuit
- ・Programmable timer
- ・R/f converter (DC)
- ・Supply voltage detection circuit
- ・Watch dog timer
- ・HALT/SLEEP instructions
- ・Integer multiplier
- ・I/O ports
- ・R/f converter (AC)
- ・Sound generator
- ・Stop watch timer

S5U1C6F632T1100
S5U1C6F632T2100 (SVT6F632)

■Block diagram

S5U1C6F632T1

■Connection diagram

S5U1C63000A2
(S1C63Family assembler
package 2)

S5U1C88000W4
(USB-Serial on Board Writer)

S5U1C6F632T1

S5U1C63000A2
(S1C63Family assembler
package 2)

S5U1C63000H
(ICE63)

S5U1C6F632T2

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