

S1C17 Family Products overview

| Products | Display | Operation clock | | | Supply current | | | | Power supply | Memory | | I/O port ^{*8} | Timer | | | | SIO | | | | | Analog | | | Others | | | Form of delivery | | |
|-----------------------------------|--------------------------------|--|-----------------------|----------------------------------|-------------------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------|------------|--|--------------|------------------|----------------|-----------------|------|-----|------|------------------|--|------------------------|------------------------|-------------------|-----------------|--------------------|--------------------|-----------------------|------|-----------|
| | LCD Driver segxcom | High-speed [Hz] (Max.) | Low-speed [Hz] (Typ.) | Built-in oscillator [Hz] (Typ.) | Sleep [μA] (Typ.) | Halt [μA] (Typ.) | 32kHz Operating [μA] (Typ.) | 1MHz Operating [μA] (Typ.) | Supply voltage [V] | Flash ROM [Byte] | RAM [Byte] | | 16-bit timer | 16-bit PWM timer | Watchdog timer | Real-time clock | UART | SPI | QSPI | I ² C | Remote controller transmission and reception | R/F converter (24-bit) | A/D converter (12-bit) | SVD ^{*4} | Sound generator | Multiple r/Divider | Special function | Package | Chip | |
| S1C17W00 series/W10/W20/W30 group | | [Ultra Low Power] This is an ultra-low power consumption 16-bit MCU compatible to low voltage operations from 1.2V, even with built-in flash memory. LCD driver, high-performance PWM and improved analog functions, combined with the powerful processing capacity of the 16-bit CPU, suitable for battery driven applications that require a LCD and clock function. | | | | | | | | | | The embedded highly efficient DC-DC converter generates an internal constant voltage, to drive an IC with a low power consumption operation beyond 4-bit MCUs. This product is equipped with a built-in RTC, | | | | | | | | | | | | | | | | | | |
| S1C17W12 | 26 x 4 | 4.2M | 32.768k | 32k/250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.3 | 2 | 140 | 1.2 to 3.6 ^{*9} | 48K ^{*3} | 2K | 32 | 3 | 2 x 2 | 1 | 1 | 2 | 1 | - | 1 | 1 | 2 ^{*5} | - | 1 | 1 | 1 | LED pin x 2 | - | ○ | |
| | 18 x 4 | | | | | 1.5 | 5 | | | | | | | | | | | | | | | | | | | | | 26 | - | |
| S1C17W13 | 26 x 4 | 4.2M | 32.768k | 32k/250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.3 | 2 | 140 | 1.2 to 3.6 ^{*9} | 48K ^{*3} | 2K | 32 | 3 | 2 x 2 | 1 | 1 | 2 | 1 | - | 1 | 1 | 2 ^{*5} | - | 1 | 1 | 1 | LED pin x 2 | QFP13-64 | ○ | |
| | 18 x 8 | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | 26 | | QFN7-48 |
| | 20 x 4 ^{*7} | | | | | | - | | | | | | | | | | | | | | | | | | | | | TQFP12-48 | | |
| S1C17W14 | 54 x 4 50 x 8 | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.3 | 3 | 200 | 1.2 to 3.6 ^{*1} | 48K ^{*3} | 4K | 33 | 3 | 2 x 2 | 1 | 1 | 2 | 2 | - | 1 | 1 | - | 1 | 1 | 1 | 1 | - | QFP15-100 | ○ | |
| S1C17W15 | 34 x 4 30 x 8 | 4.2M | 32.768k | 500k/700k/1M/2M/4M | 0.15 | 0.3 | 4 | 250 | 1.2 to 3.6 ^{*1} | 64K ^{*3} | 4K | 36 | 3 | 2 x 2 | 1 | 1 | 2 | 1 | - | 1 | - | 4 ^{*5} | - | 1 | 1 | 1 | - | QFP15-100 | ○ | |
| | 32 x 4 28 x 8 | | | | | | 8 | | | | | | | | | | | | | | | | | | | | | 33 | | TQFP14-80 |
| | 24 x 4 20 x 8 | | | | | | 28 | | | | | | | | | | | | | | | | | | | | | SQFN9-64 TQFP13-64 | | |
| S1C17W16 | 60 x 4 56 x 8 | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.3 | 3 | 200 | 1.2 to 3.6 ^{*1} | 64K ^{*3} | 8K | 40 | 5 | 2 x 2 | 1 | 1 | 2 | 3 | - | 1 | 1 | 2 ^{*5} | 4 | 1 | 1 | 1 | - | TQFP15-128 | ○ | |
| S1C17W18 | 48 x 4 44 x 8 | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.3 | 2 | 140 | 1.2 to 3.6 ^{*9} | 128K ^(*3) | 8K | 68 | 4 | 3 x 2 | 1 | 1 | 2 | 2 | - | 1 | 1 | 2 ^{*5} | 7 | 1 | 1 | 1 | Temperature sensor | TQFP15-128 | ○ | |
| | 32 x 4 28 x 8 | | | | | 4 | 59 | | | | | | | | | | | | | | | | | | | | | TQFP14-80 | | |
| | 24 x 4 20 x 8 | | | | | 49 | SQFN9-64 | | | | | | | | | | | | | | | | | | | | | | | |
| S1C17W22 | 72 x 4/8 64 x 16 56 x 24 | 4.2M | 32.768k | 500k/700k/1M/2M/4M | 0.15 | 0.3 | 4 | 250 | 1.2 to 3.6 ^{*1} | 64K ^{*3} | 4K | 42 | 2 | 2 x 2 | 1 | 1 | 1 | 1 | - | 1 | 1 | 2 ^{*5} | - | 1 | 1 | 1 | - | TQFP15-128 | ○ | |
| S1C17W23 | 72 x 4/8 64 x 16 56 x 24 | 4.2M | 32.768k | 500k/700k/1M/2M/4M | 0.15 | 0.3 | 4 | 250 | 1.2 to 3.6 ^{*1} | 96K ^{*3} | 8K | 42 | 4 | 3 x 2 | 1 | 1 | 2 | 2 | - | 1 | 1 | 2 ^{*5} | 6 | 1 | 1 | 1 | - | TQFP15-128 | ○ | |
| S1C17W34 | 80 x 16 64 x 32 | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.4 | 3 | 150 | 1.2 to 3.6 ^{*2,*6} | 128K ^(*3) | 12K | 53 | 4 | 3 x 2 | 1 | 3 | 2 | 2 | - | 1 | 1 | 2 ^{*5} | 7 | 1 | 1 | 1 | Temperature sensor | QFP21-176 | ○ | |
| S1C17W35 | 80 x 16 64 x 32 | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.4 | 3 | 150 | 1.2 to 3.6 ^{*2,*6} | 256K ^(*3) | 12K | 53 | 4 | 3 x 2 | 1 | 3 | 2 | 2 | - | 1 | 1 | 2 ^{*5} | 7 | 1 | 1 | 1 | Temperature sensor | QFP21-176 | ○ | |
| S1C17W36 | 80 x 16 64 x 32 | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.4 | 3 | 150 | 1.2 to 3.6 ^{*2,*6} | 384K ^(*3) | 16K | 53 | 4 | 3 x 2 | 1 | 3 | 2 | 2 | - | 1 | 1 | 2 ^{*5} | 7 | 1 | 1 | 1 | Temperature sensor | QFP21-176 | ○ | |

*1: During erasing / programming in flash memory (V_{DD}): 1.8V to 3.6 V

*5: Independent operation for each channel.

*9: During erasing / programming in flash memory (V_{DD}): 2.4V to 3.6 V

*2: During operations LCD (V_{DD}): 2.5V to 3.6V

*6: During erasing / programming in flash memory (V_{DD}): 2.7V to 3.6V, 1.8V to 3.6V during the external applying V_{PP}=7.5V/7.5V(Typ.)

*3: During erasing / programming voltage in flash memory (V_{PP}): The external applying of 7.5V / 7.5V (Typ.) is needed. (*5) can be rewritten even with internal power supply.

*7: External voltage application mode only.

*4: SVD is an abbreviation for Supply Voltage Detector.

*8: Including Input port and Output port.

S1C17 Family Products overview

| Products | Display | | Operation clock | | | Supply current | | | | Power supply | Memory | | | I/O | Timer | | | | SIO | | | | | Analog | | | Reset | | Others | | | Form of delivery | |
|-----------------|--------------------------------|--|------------------------|--------------------------|---------------------------------|-------------------|------------------|-----------------------------|----------------------------|------------------------------|---------------------|-------------------------|------------|------------------------|--------------|------------------|----------------|-----------------|------|-----|----------|------------------|--|-----------------------|------------------------|-------------------|-------|-----|-----------------|--------------------------|--------------------------|----------------------|------|
| | LCD Driver seg×com | Display controller | High-speed [Hz] (Max.) | Low-speed [Hz] (Max.) | Built-in oscillator [Hz] (Typ.) | Sleep [μA] (Typ.) | Halt [μA] (Typ.) | 32kHz Operating [μA] (Typ.) | 1MHz Operating [μA] (Typ.) | Supply voltage [V] | Flash ROM [Byte] | EEPROM [Byte] | RAM [Byte] | I/O port ^{*5} | 16-bit timer | 16-bit PWM timer | Watchdog timer | Real-time clock | UART | SPI | Quad SPI | I ² C | Remote controller transmission and reception | RF converter (24-bit) | A/D converter (12-bit) | SVD ^{*4} | POR | BOR | Sound generator | Multiple r/Divider | Special function | Package | Chip |
| S1C17M00 series | | It is an application specialized series. It is a 16-bit MCU with Flash memory compatible with high processing while achieving low power consumption, supporting power supply voltages from 1.8 V to 5.5 V. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1C17M01 | 32 x 4 28 x 8 | – | 16.3M | 32.768k | 7.37M | 0.35 | 0.8 | 12.5 | 210 | 1.8 to 5.5 ^{*1, *7} | 32K ^{*3} | – | 4K | 19 | 5 | – | 1 | 1 | 1 | 2 | – | 1 | – | 1 | – | 1 | ○ | – | – | – | AMRC | TQFP13-64 | ○ |
| S1C17M10 | 88 x 8 80 x 16 | – | 16M | 32.768k | 32k/ 4M/8M/ 12M/16M | 0.16 | 0.6 | 4 | 145 | 1.8 to 5.5 ^{*2} | 64K ^{(*)3} | – | 4K | 33 | 5 | 1 x 2 | 1 | 1 | 1 | 1 | – | 1 | – | – | 1 | ○ | – | – | 1 | SMCIF | TQFP15-128 | ○ | |
| S7C17M11 | 34 x 4 32 x 6 30 x 8 | – | 16.8M | – | 32.768k/ 4M/8M/ 12M/16M | 2.25 | 2.35 | 8 | 187 | 1.8 to 5.5 ^{*2} | 126K ^{*3} | – | 8K | 43 | 4 | 1 x 2 | 1 | 1 | 4 | 1 | – | 2 | – | 8 | 1 | ○ | ○ | 1 | 1 | SMCIF x 2 DTCXO | H4QFP15-100 | – | |
| S1C17M12 | – | LED controller 8x5 | 16.8M | – | 4M/8M/ 12M/16M | 0.35 | 40 | – | 150 | 1.8 to 5.5 ^{*2} | 16K ^{*3} | – | 2K | 39 | 4 | 1 x 2 | 1 | – | 1 | 2 | – | 1 | 1 | – | 1 | ○ | ○ | – | 1 | High current port x 5 | TQFP12-48 | ○ | |
| S1C17M13 | – | LED controller 8x5 | 16.8M | – | 4M/8M/ 12M/16M | 0.35 | 40 | – | 150 | 1.8 to 5.5 ^{*2} | 16K ^{*3} | – | 2K | 39 | 4 | 1 x 2 | 1 | – | 1 | 2 | – | 1 | 1 | – | 8 | 1 | ○ | ○ | – | 1 | High current port x 5 | TQFP12-48 | ○ |
| S1C17M20 | – | – | 21M | – | 32k/700k/ 12M/16M/20M | 0.36 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 16K ^{(*)3} | – | 2K | 18 24 | 4 | 2 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | – | 4 6 | 1 | ○ | ○ | 1 | 1 | – | SQFN4-24 SQFN5-32 | – |
| S1C17M21 | – | – | | 32k/700k/ 12M/16M/20M | 0.36 | | | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | |
| S1C17M22 | – | – | 21M | 32.768k | 32k/700k/ 12M/16M/20M | 0.36 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 16K ^{(*)3} | – | 2K | 40 | 4 | 2 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | 2 | 8 | 1 | ○ | ○ | 1 | 1 | – | TQFP12-48 | – |
| S1C17M23 | – | – | 21M | – | 32k/700k/ 12M/16M/20M | 0.36 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 32K ^{(*)3} | – | 2K | 18 24 | 4 | 2 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | – | 4 6 | 1 | ○ | ○ | 1 | 1 | – | SQFN4-24 SQFN5-32 | – |
| S1C17M24 | – | – | | 32k/700k/ 12M/16M/20M | 0.36 | | | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | |
| S1C17M25 | – | – | 21M | 32.768k | 32k/700k/ 12M/16M/20M | 0.36 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 32K ^{(*)3} | – | 2K | 40 | 4 | 2 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | 2 | 8 | 1 | ○ | ○ | 1 | 1 | – | TQFP12-48 | – |
| S1C17M30 | 26 x 4 22 x 8 ^{*6} | – | 16.8M | 32.768k | 32k/700k/ 12M/16M | 0.2 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 48K ^{(*)3} | 256 | 4K | 38 | 4 | 3 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | 2 | 2 | 1 | ○ | ○ | 1 | 1 | – | TQFP12-48 | – |
| S1C17M31 | 26 x 4 22 x 8 | – | 16.8M | – | 32k/700k/ 12M/16M | 0.2 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 48K ^{(*)3} | 256 | 4K | 38 | 4 | 3 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | 2 | 2 | 1 | ○ | ○ | 1 | 1 | – | TQFP12-48 | – |
| S1C17M32 | 42 x 4 38 x 8 ^{*6} | – | 16.8M | 32.768k | 32k/700k/ 12M/16M | 0.2 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 64K ^{(*)3} | 265 | 4K | 54 | 4 | 3 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | 2 | 2 | 1 | ○ | ○ | 1 | 1 | – | TQFP13-64 | – |
| S1C17M33 | 50 x 4 46 x 8 | – | 16.8M | 32.768k | 32k/700k/ 12M/16M | 0.2 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 96K ^{(*)3} | 32 to 512 ^{*8} | 4K | 66 | 4 | 3 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | 2 | 5 | 1 | ○ | ○ | 1 | 1 | – | TQFP14-80 | ○ |
| S1C17M34 | 37 x 4 33 x 8 | – | 16.8M | 32.768k | 32k/700k/ 12M/16M | 0.2 | 0.7 | 5 | 160 | 1.8 to 5.5 ^{*2} | 64K ^{(*)3} | 256 | 4K | 52 | 4 | 3 x 2 | 1 | 1 | 2 | 2 | – | 1 | 1 | 2 | 5 | 1 | ○ | ○ | 1 | 1 | – | TQFP13-64 | – |

*1: During erasing / programming in flash memory (V_{DD}): V_{PP}=2.7V to 5.5V without the external applying, V_{PP}=1.8V to 5.5V during the external applying
 *2: During erasing / programming in flash memory (V_{DD}): 2.7V to 5.5 V
 3: During erasing / programming voltage in flash memory (V_{PP}): The external applying of 7.5V / 7.5V (Typ.) is needed. ()3 can be rewritten even with internal power supply.
 *4: SVD is an abbreviation for Supply Voltage Detector.
 *5: Output dedicated port 1 included.
 *6: External voltage application mode only.
 *7: (MR sensor controller) Operation (V_{DD}): 2.0V to 5.5V
 *8: Flash area is used.

S1C17 Family Products overview

| Products | Display | Operation clock | | | Supply current | | | | Power supply | Memory | | | I/O | Timer | | | | | | | SIO | | | | | Analog | | | Others | | | Form of delivery | |
|---------------------------|--------------------|--|-----------------------|---------------------------------|-------------------|------------------|-----------------------------|----------------------------|--|------------------|-----------------|------------|---|----------|-------------|--------------|------------------|-----------|----------------|-------|-----------------|------|-----|-------------------------|------------------------|--|------------------------|------------------------|--------|-----------------------------|-------------------------|--------------------------|---------|
| | LCD Driver segxcom | High-speed [Hz] (Max.) | Low-speed [Hz] (Typ.) | Built-in oscillator [Hz] (Typ.) | Sleep [μA] (Typ.) | Halt [μA] (Typ.) | 32kHz Operating [μA] (Typ.) | 1MHz Operating [μA] (Typ.) | Supply voltage [V] | Flash ROM [Byte] | Mask ROM [Byte] | RAM [Byte] | | I/O port | 8-bit timer | 16-bit timer | 16-bit PWM timer | Stopwatch | Watchdog timer | Clock | Real-time clock | UART | SPI | I ² C master | I ² C slave | Remote controller transmission and reception | R/F converter (24-bit) | A/D converter (12-bit) | SVD *8 | Sound generator | Multiplier /Divider | Special function | Package |
| S1C17W00 series/W00 group | | [Ultra Low Power] This is an ultra-low power consumption 16-bit MCU compatible to low voltage operations from 1.2V, even with built-in flash memory. This product is equipped with a built-in RTC, stopwatch, high-performance PWM, external bus I/F and improved analog functions, combined with the powerful | | | | | | | | | | | The embedded highly efficient DC-DC converter generates an internal constant voltage, to drive an IC with a low power consumption operation beyond 4-bit MCUs. processing capacity of the 16-bit CPU, suitable for battery driven applications. | | | | | | | | | | | | | | | | | | | | |
| S1C17W03 | - | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.3 | 4 | 250 | 1.2 to 3.6 *1 | 16K *3 | - | 2K | 35 | - | 4 | 2 x 2 | - | 1 | - | 1 | 2 | 2 | 1 | 1 | 1 | 2 *10 | 6 | 1 | 1 | 1 | - | TQFP12-48 | ○ |
| | | | | | | | | | | | | | 24 | | | | | | | | | | | | 1 | 5 | | | | | SQFN5-32 | - | |
| S1C17W04 | - | 4.2M | 32.768k | 250k/384k/500k/700k/1M/2M/4M | 0.15 | 0.3 | 4 | 250 | 1.2 to 3.6 *1 | 32K *3 | - | 2K | 35 | - | 4 | 2 x 2 | - | 1 | - | 1 | 2 | 2 | 1 | 1 | 1 | 2 *10 | 6 | 1 | 1 | 1 | - | TQFP12-48 | ○ |
| | | | | | | | | | | | | | 24 | | | | | | | | | | | | 1 | 5 | | | | | SQFN5-32 | - | |
| S1C17560/580 series | | [Low Power] This is a 16-bit MCU with built-in flash memory, which realizes high-speed processing at low power consumption. This product is equipped with various | | | | | | | | | | | features, such as a general-purpose I/O port, A/D converter input and serial I/F, and is suitable for controlling various sensor built-in devices, including household appliances. | | | | | | | | | | | | | | | | | | | | |
| S1C17564 | - | 24M | 32.768k | 2M to 12M | 0.8 | 2.7 | 16 | 450 | 2.0 to 5.5 | 128K *2 | - | 16K | 40 | - | 5 | 4 | 1 | 1 | 1 | - | 2 | 3 | 1 | 1 | 1 | - | 4 *9 | - | - | 1 | - | TQFP13-64 VFBGA5H-81 | ○ |
| S1C17589 | - | 16.8M | 32.768k | 4M/8M/12M/16M | 0.2 | 0.6 | 9 | 280 | 1.8 to 5.5 | 128K *3 | - | 16K | 88 | - | 6 | 4 x 6 | - | 1 | - | 1 | 3 | 2 | 1 | 1 | 1 | - | 16 | 1 | - | 1 | - | QFP15-100 | ○ |
| | | | | | | | | | | | | | 68 | | | | | | | | | | | | - | 11 | | | | | QFP14-80 | - | |
| | | | | | | | | | | | | | 52 | | | | | | | | | | | | - | 7 *9 | | | | | QFP13-64 | - | |
| S1C17800 series | | [High Performance] This 16-bit MCU realized advanced processing equivalent to 32-bit. The built-in LCD controller provides maximum VGA monochrome displays. This product is equipped with abundant built-in I/F, such as USB, various serial interfaces | | | | | | | | | | | and A/D converters, suitable for operation panel control of white home appliances and various products, with improved user interface utilizing displays, music, sound, touch panels and etc. | | | | | | | | | | | | | | | | | | | | |
| S1C17801 | LCD Controllers | 48M | 32.768k | - | 1.4 *5 | 12 | - | 6000 | 3.0 to 3.6 | 128K *7 | - | 4K | 99 | 6 | 2 | 1 | - | 1 | - | 1 *4 | 1 | 2 | 1 | - | 1 | - | 8 *9 | - | - | Multiplier :○ Divider :x | BUS supported USB FS | TQFP15-128 | - |
| S1C17803 | LCD Controllers | 33M | 32.768k | - | 1.3 *5 | 5 | - | 6500 | 2.7 to 5.5 | 128K *7 | - | 16K | 97 | 4 | 1 | 2 | - | 1 | - | 1 *4 | 1 | 2 *6 | 1 | 1 | 1 | - | 4 *9 | - | - | 1 | BUS supported | TQFP15-128 TQFP14-100 | - |
| | | | | | | | | | | | | | 69 | | | | | | | | | | | | | | | | | | | | |
| S1C17900 series | | [Application-specific type] Incorporating low power consumption, DSP has made it possible to achieve advanced signal processing, which was difficult for | | | | | | | | | | | conventional battery-driven devices to perform, with extremely low power consumption. This series can be used for a variety of sensor-mounted applications, together with a rich array of serial interfaces and analog-to-digital converters. | | | | | | | | | | | | | | | | | | | | |
| S1C17955 | - | - | 32.768k | 2M/4M/8M/12M | 1.0 | 2.9 | 15 | 400 | 1.65 to 1.95 (Core) 1.65 to 3.6 (I/O) | 128K *3 | - | 16K | 20 | - | 5 | 4 | 1 | 1 | 1 | - | 1 | 3 | 1 | 1 | - | - | - | - | - | 1 | FSA *11 | WCSP-48 | ○ |
| S1C17965 | - | 24M | 32.768k | 2M/4M/8M/12M | 1.0 | 2.9 | 15 | 400 | 2.0 to 3.6 | 128K *3 | - | 16K | 24 | - | 5 | 4 | 1 | 1 | 1 | - | 2 | 3 | 1 | 1 | 1 | - | 6 | - | - | 1 | FSA *11 | TQFP13-64 | ○ |

*1: During erasing / programming voltage in flash memory (V_{DD}): 1.8V to 3.6V
 *2: During erasing / programming voltage in flash memory (V_{PP}): The external applying of 7.5V / 7.0V (Typ.) is needed.
 *3: During erasing / programming voltage in flash memory (V_{PP}): The external applying of 7.5V / 7.5V (Typ.) is needed.
 *4: The battery backed up operation is supported.
 *5: Unmounted OSC1
 *6: Universal serial interface (Any of UART, SPI and I²C functions can be selected.)
 *7: This product uses SuperFlash® technology licensed from Silicon Storage Technology, Inc.
 *8: SVD is an abbreviation for Supply Voltage Detector.
 *9: Resolution: 10-bit
 *10: Independent operation for each channel.
 *11: Low power DSP
 *12: Including Input port and Output port.

