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| colspan table title | | | | | | | | | | | | | | | | | | |

## SH79FXXXX系列(1T 8051 Core)

| 芯片型号 | 闪存(字节) | 随机存储器(字节) | 工作电压(伏特) | CPU时钟(赫兹) | I/O端口(引脚) | 中断源 | 定时器 | EUART | SPI | I2C | ISP | IAP | 液晶驱动(COM×SEG) | 模/数转换器 | 脉冲宽度调制 | 看门狗定时器 | 低电压复位 | 其他功能 | 封装 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Flash ROM (Byte) | RAM (Byte) | Voltage (V) | CPU Clock (Hz) | I/O (Pin) | Interrupt Source | Timer | EUART | SPI | I2C | ISP | IAP | LCD (COM×SEG) | ADC | PWM | WDT | LVR | Others | Package |
| SH79F081A | 8K | 256 | 3.6~5.5 | 400K~16M | Max 26 | T0~2, EX0~1, EX4, ADC, EUART, SPI, PWM | 3×16bits | 1 | 1 | -- | -- | √ | -- | 8×10bits | 1×12bits 2×8bits | √ | 3.7V 4.1V | Buzzer, 2K类EEPROM | SOP28 |
| SH79F0819 | 8K | 531 | 2.0~5.5 | 32K~12.3M | 26 | T2~5, EX2~4, ADC, SCM, LPD, EUART, PWM | 4×16bit | 1 | -- | -- | -- | √ | LCD: 4×12 LED: 4×8 | 6×10bit | 1×12bit | √ | 2.1V 4.3V | 6个灌电流强驱动I/O, 1K类EEPROM | SOP28 |
| SH79F083A | 8K | 512 | 2.8~5.5 | 30K~16.6M | Max 18 | T0~2, EX0~2, ADC, EUART, SCM, PWM, LPD | 3×16bits | 1 | -- | -- | -- | √ | -- | 8×10bits | 1×8bits | √ | 2.8V 3.7V 4.1V | 512类EEPROM, | SOP20, TSSOP20 |
| SH79F084A | 8K | 512 | 2.8~5.5 | 30K~16.6M | 14 | T0~2, EX0~2, ADC, EUART, SCM, LPD, PWM | 3×16bit | 1 | -- | -- | -- | √ | -- | 6×10bit | 1×8bits | √ | 2.8V 3.7V 4.1V | 512类EEPROM, | SOP16 |
| SH79F085 | 8K | 512 | 3.0~5.5 | 32K~16.6M | 15&19 | T0~3, EX0~2, ADC, EUART, SCM | 4×16bits | 1 | -- | -- | √ | √ | -- | 2×20bits Σ−Δ ADC | -- | √ | 3.1V 4.3V | 512类EEPROM, Buzzer,PGA, 2.7V Regulator | TSSOP20 SOP24 |
| SH79F161A | 16K | 768 | 3.6~5.5 | 400K~16M | Max 30 | T0~2, EX0~4, ADC, EUART, SPI, PWM | 3×16bits | 1 | 1 | -- | -- | √ | -- | 8×10bits | 1×12bits 2×8bits | √ | 3.7V 4.1V | Buzzer,2K类EEPROM | LQFP32 QFP44 LQFP44 |
| SH79F1612A | 16K | 1024 | 2.8~5.5 | 32K-16.6M | Max18 | T0~2, EXT0~2, ADC, EUART0~1, SCM, PWM, LPD, CMP, EUART1 | 3×16bits | 2 | -- | -- | -- | √ | -- | 8×10bits | 1×8bits | √ | 2.8V 3.7V 4.1V | LPD, SCM, 512类EEPROM | SOP20 TSSOP20 |
| SH79F1616 | 16K | 512 | 2.0~5.5 | 2M~12M | 30 | T2~5, EX2~4, ADC, SCM, LPD, EUART, PWM | 4×16bit | 1 | -- | -- | -- | √ | LCD: 4×10 8×10 LED: 8×5 | 8×10bit | 1×12bit | √ | 2.1V 4.3V | 8个灌电流强驱动I/O, 1K类EEPROM | LQFP32 |
| SH79F1617 | 16K | 768 | 3.6~5.5 | 400K~16M | 30 | T0~2, EX0~4, ADC, EUART, SPI, PWM | 3×16bit | 1 | 1 | -- | -- | √ | -- | 8×10bit | 1×12bit 2×8bit | √ | 3.7V 4.1V | Buzzer,8个灌电流强驱动I/O | LQFP32 |
| SH79F1618 | 16K | 512 | 2.0~5.5 | 2M~12M | 26 | T2~5, EX2~4, ADC, SCM, LPD, EUART, PWM | 4X16bit | 1 | -- | -- | -- | √ | -- | 8X10bit | 1x12bit | √ | 2.1V 4.3V | 8个灌电流强驱动I/O,2K类EEPROM | SOP28 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SH79F1619 | 16K | 531 | 2.0~5.5 | 32K~12.3M | 26 | T2~5, EX2~4, ADC, SCM, LPD, EUART, PWM | 4×16bit | 1 | -- | -- | -- | √ | LCD: 4×12 LED: 4×8 | 6×10bit | 1×12bit | √ | 2.1V 4.3V | 6个灌电流强驱动I/O, 1K类EEPROM | SOP28 |
| SH79F1620 | 16K | 512 | 2.0~5.5 | 32K~12M | 18&26 | T2~5, ADC, SCM, LPD, EUART, PWM | 4×16bit | 1/-- | -- | -- | -- | √ | -- | 8×10bit | 1×12bit | √ | 2.1V 4.3V | 6/8个灌电流强驱动I/O, 1K类 EEPROM, Buzzer | SOP28 SOP20 TSSOP20 |
| SH79F1621 | 16K | 531 | 2.0~5.5 | 32K~12M | 41 | T2~5, EX0~4, ADC, SCM, LPD, EUART, PWM | 4×16bit | 1 | -- | -- | -- | √ | LCD: 8×19 4×19 LED: 8×8 4×8 | 8×10bit | 1×12bit | √ | 2.1V 4.3V | 8个灌电流强驱动I/O, 1K类EEPROM, Buzzer | QFP44 LQFP44 |
| SH79F1622 | 16K | 1536 | 2.7~5.5 | 32K~27M | 25&17 | T2~4, EX0~2, 4EUART, TOUCHKEY, TWI | 3×16bit | 1 | -- | TWI | -- | √ | LED: 7x16 | -- | -- | √ | 2.8V, 4.1V | Max 20 Touchkey PSG | SOP28 SOP20 SOP16 |
| SH79F165 | 16K | 512 | 3.0~5.5 | 32K~16.6M | 19 | T0~3, EX0~2, ADC, EUART, SCM | 4×16bits | 1 | -- | -- | √ | √ | -- | 3×20bits $\Sigma-\Delta$ ADC | -- | √ | 3.1V 4.3V | 512类EEPROM, Buzzer, PGA, 2.7V Regulator | SOP24 |
| SH79F3212 | 32K | 1580 | 2.7~5.5 | 32K~16.6M | 18&26 | T0~4, EX2~4, ADC, EUART, TWI, PWM, SCM, LPD, TOUCHKEY, CRC | 5 x 16 bit | 1 | -- | -- | √ | √ | LED: 7x13 | 13x12 bit | 2x12bit | √ | 2.8V 3.1V, 3.7V | 7个灌电流强驱动I/O, 1K类EEPROM, BUZZER, CRC校验 | SOP20, SOP28 |
| SH79F3213 | 33K | 1581 | 2.7~5.6 | 32K~16.7M | 18&27 | T0~4, EX2~5, ADC, EUART, TWI, PWM, SCM, LPD, TOUCHKEY, CRC | 6 x 16 bit | 2 | -- | -- | √ | √ | LED: 7x14 | 13x13 bit | 2x13bit | √ | 2.8V 3.1V, 3.8V | 7个灌电流强驱动I/O, 2K类EEPROM, BUZZER, CRC校验 | SOP20, SOP29 |
| SH79F3284 | 32K | 1564 | 2.0~5.5 | 32K~16M | 42&30 | T2~5, EX0~4, ADC, EUART, PWM, SCM, LPD, SPI, CMP | 4 x 16 bit | 2/1 | 1/0 | -- | -- | √ | LCD: 8x20/8x10 4x24/4x14 LED: 8x8/8x5 | 9x12 bit | 1x12bit 1x8bit/-- | √ | 2.1V, 2.8V 3.7V, 4.1V | 8个灌电流强驱动I/O, 1K类EEPROM, BUZZER, CRC校验, 内建2个比较器, 频率检测 | LQFP44 LQFP32 |
| SH79F6431 | 64K | 3072 | 2.4~3.6V | 32K － 9.8M | Max 46 | T0~2, EX1~3, ADC, I2C, LPD, HSEC, EUART0~2, PWM | 3×16bits | 3 | -- | 1 | √ | √ | 4×39 | 4×10bits | 2×12bits | √ | 2.4V | RTC, LPD, PLL, 2K类EEPROM | LQFP64 |
| SH79F6484 | 64K | 1564 | 2.0~5.5 | 32K~16M | 46&42 | T2~5, EX0~4, ADC, EUART, PWM, SCM, LPD, SPI, CMP | 4 x 16 bit | 2 | 1 | -- | -- | √ | LCD: 8x24/8x20 4x28/4x24 LED: 8x8 | 9x12 bit | 1x12bit 1x8bit | √ | 2.1V, 2.8V 3.7V, 4.1V | 8个灌电流强驱动I/O, 1K类EEPROM, BUZZER, CRC校验, 内建2个比较器, 频率检测模块 | TQFP48 LQFP44 |

| Part Number | ROM (Byte) | RAM (Byte) | Voltage (V) | CPU Clock (Hz) | I/O (Pin) | Feature | ISP/IAP | EUART | CMP | | | Timer/LCD | SPI | ExINT | | LVR | LPD | Others | Package |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SH79F6488 | 64K | 2560 | 3.0～5.5 | 32K~24M | Max 72 | T2~4, BT, EXO~4, PWMO~2, ADC, EUART, SCM, SPI | 3×16bits | 1 | -- | -- | √ | √ | 4×36 5×35 6×34 | 4×20bits | 3×12bits | √ | 3.1V 4.0V | PGA, OP, LPD, PLL, 2K 类EEPROM | CHIPFORM LQFP64 LQFP80 |
| SH79F6489 | 64K | 2560 | 3.0～5.5 | 32K~24M | Max 72 | T2~4, BT, EXO~4, PWMO~2, ADC, EUART, SCM, SPI, USB | 3×16bits | 1 | -- | -- | √ | √ | 4×36 5×35 6×34 | 4×20bits | 3×12bits | √ | 3.1V 4.0V | PGA, OP, LPD, PLL, 2K 类EEPROM, USB 2.0 full speed | CHIPFORM LQFP64 LQFP80 |

## SH88/89FXXXX系列(1T 8051 Core)

| 芯片型号 | 只读存储器(字节) | 随机存储器(字节) | 工作电压(伏特) | CPU时钟(赫兹) | I/O端口(引脚) | ISP/IAP | EUART | 比较器 | 模/数转换器 | 脉冲宽度调制 | 定时器 | SPI | 外部中断 | 低电压复位 | 低电压检测 | 内建RC | 其他功能 | 封装 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | ROM (Byte) | RAM (Byte) | Voltage (V) | CPU Clock (Hz) | I/O (Pin) | ISP/IAP | EUART | CMP | ADC | PWM | Timer | SPI | ExINT | LVR | LPD | In_Rc OSC | Others | Package |
| SH88F2051A | 4K FLASH +512 EEPROM | 512 | 2.8~5.5 | 30K~16.6M | 18 14 (SOP16) | √ | 1 | 1 无 (SOP16) | 8×10bits 6×10bits (SOP16) | 1×8bits SOP16无 | 3×16bits | -- | 3 | 2.8V 3.7V 4.1V | √ | ±2% | -- | DIP20 SOP20 SOP16 |
| SH88F4051A | 8K FLASH +512 EEPROM | 512 | 2.8~5.5 | 30K~16.6M | 18 | √ | 1 | 1 | 8×10bits | 1×8bits | 3×16bits | -- | 3 | 2.8V 3.7V 4.1V | √ | ±2% | -- | TSSOP20 |
| SH88F54 | 16K FLASH +512 EEPROM | 768 | 3.6~5.5 | 30K~16.6M | 40 | √ | 2 | 2 | 8×10bits | 3×8bits | 3×16bits | 1 | 10 | 3.7V 4.3V | √ | ±3% | -- | QFP44 |
| SH88F516 | 64K FLASH +1K EEPROM | 1280 | 3.6~5.5 | 30K~16.6M | 40 | √ | 2 | 2 | 8×10bits | 3×8bits | 3×16bits | 1 | 10 | 3.7V 4.3V | √ | ±3% | -- | QFP44 |
| SH89F52 | 8K FLASH +512 EEPROM | 512 | 3.6~5.5 | 30K~16.6M | 40 | √ | 1 | 2 | -- | 3×8bits | 3×16bits | 1 | 10 | 3.7V 4.3V | √ | ±3% | -- | QFP44 |
| SH88F6161 | 64K FLASH +2K EEPROM | 3072 | 2.0~5.5 | 32K - 24M | 61 45 (TQFP48) | √ | 2 | -- | 12×12bits | 9×16bits | 2×16bits | 1 | 10 | 2.1V 2.7V 3.7V 4.1V | √ | ±2% | TWI, 12bits DAC, OP, 4*40LCD, 10*8LED | LQFP64 TQFP48 |
| SH88F6162 | 64K FLASH +2K EEPROM | 3072 | 2.0~5.5 | 32K - 24M | 61 45 (TQFP48) | √ | 2 | -- | 12×12bits | 9×16bits | 2×16bits | 1 | 10 | 2.1V 2.7V 3.7V 4.1V | √ | ±2% | USB, TWI, 12bits DAC, OP, 4*40LCD, 10*8LED | LQFP64 TQFP48 |