

# S3C80F7 S3C863A S3C8095 S3C80E5 datasheet

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-08/msg01974.html>

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<http://www.chinaicmart.com/series-S3C/S3C80F7.html>

S3C80F7 datasheet description

## S3C8-SERIES MICROCONTROLLERS

Samsung's S3C8 series of 8-bit single-chip CMOS microcontrollers offers a fast and efficient CPU, a wide range of integrated peripherals, and various mask-programmable ROM sizes. Important CPU features include:

- Efficient register-oriented architecture
- Selectable CPU clock sources
- Idle and Stop power-down mode release by interrupt
- Built-in basic timer with watchdog function

A sophisticated interrupt structure recognizes up to eight interrupt levels. Each level can have one or more interrupt sources and vectors. Fast interrupt processing (within a minimum six CPU clocks) can be assigned to specific interrupt levels.

### S3C80F7/C80F9/C80G7/C80G9 Microcontroller

The S3C80F7/C80F9/C80G7/C80G9 single-chip CMOS microcontroller is fabricated using a highly advanced CMOS process and is based on Samsung's newest CPU architecture.

The S3C80F9/C80G9 is the microcontroller which has 32-Kbyte mask-programmable ROM and S3C80F7/C80G7 is the microcontroller which has 24-Kbyte mask-programmable ROM.

The S3P80F9/P80G9 is the microcontroller which has 32-Kbyte one-time-programmable EPROM and S3P80F7/P80G7 is the microcontroller which has 24-Kbyte one-time-programmable EPROM.

Using a proven modular design approach, Samsung engineers developed S3C80F7/C80F9/C80G7/C80G9 by integrating the following peripheral modules with the powerful SAM87 RC core:

- Internal LVD circuit and 16 bit-programmable pins for external interrupts.
- One 8-bit basic timer for oscillation stabilization and watchdog function (system reset).
- One 8-bit timer/counter and one 16-bit timer/counter with selectable operating modes.
- One 8-bit counter with auto-reload function and one-shot or repeat control.

The S3C80F7/C80F9/C80G7/C80G9 is a versatile general-purpose microcontroller which is especially suitable for use as remote transmitter controller. It is currently available in a 32-pin SOP, 42-

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pin SDIP and 44-pin QFP package.

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