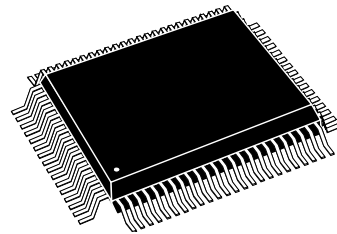


**8-BIT MCU FOR RDS WITH 48K ROM, 3K RAM, ADC,
TWO TIMERS, TWO SPIs, I²C AND SCI INTERFACES**

BRIEF DATA

- 4.5V to 5.5V Supply Operating Range
- Operates at 8.664MHz Oscillator Frequency for RDS compatibility
- Fully Static operation
- -40°C to + 85°C Maximum Operating Temperature Range
- Run, Wait, Slow, Halt and RAM Retention modes
- User ROM: 48 Kbytes
- Data RAM: 3 Kbytes, including 128 byte stack
- 80 pin plastic package
- 62 multifunctional bidirectional I/O lines:
 - Programmable Interrupt inputs on some I/Os
 - 8 Analog inputs
 - EMI filtering
- Two 16-bit Timers, each featuring:
 - 2 Input Captures
 - 2 Output Compares
 - External Clock input (on Timer A)
 - PWM and Pulse Generator modes
- RDS Radio Data System Filter, Demodulator and GBS circuits
- 8-bit Analog-to-Digital converter with 8 channel analog multiplexer
- Digital Watchdog
- Two SPI Serial Peripheral Interfaces
- SCI Serial Communications Interface
- Full I²C multiple Master/Slave interface
- 2KHz Beep signal generator
- Master Reset and Power-On Reset
- 8-bit Data Manipulation
- 63 Basic Instructions
- 17 main Addressing Modes
- 8 x 8 Unsigned Multiply Instruction
- True Bit Manipulation
- Complete Development Support on PC/DOS/Windows™ Real-Time Emulator
- Full Software Package (C-Compiler, Cross-Assembler, Debugger)

**PQFP80**