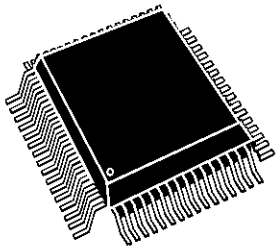
SGS-THOMSON MICROELECTRONICS

ST7250

8-BIT MCU FOR CAN WITH 32K ROM, 1K RAM, EEPROM, ADC, WDG, PWM/BRM, 2 TIMERS, SPI AND SCI INTERFACES

BRIEF DATA

- 4.5V to 5.5V Supply Operating Range
- 16 MHz Maximum Oscillator Frequency
- 8 MHz Maximum Internal Clock Frequency
- Fully Static operation
- -40°C to + 85°C Temperature Range
- Run, Wait, Slow, Halt and RAM Retention modes
- User ROM/OTP: up to 32 Kbytes
- Data RAM: up to 1 Kbytes, including 256 bytes stack
- Data EEPROM: up to 384 bytes
- 64 pin PQFP package
- 48 multifunctional bidirectional I/O lines:
  - 15 Programmable Interrupt inputs
  - 8 Analog alternate inputs
  - 4x15mA outputs
  - 25 Alternate functions
  - EMI filtering
- Two 16-bit Timers, each featuring:
  - 2 Input Captures
  - 2 Output Compares
  - External Clock input (on Timer 1)
  - PWM and Pulse Generator modes
- CAN peripheral
- 8-bit Analog-to-Digital Converter
- Programmable Watchdog for system integrity
- 4x10-bit PWM Pulse Width Modulation outputs
- Synchronous Serial Peripheral Interface
- Asynchronous Serial Communications Interface
- Master Reset and Power-On Reset
- 8-bit Data Manipulation
- 63 basic Instructions and 17 main Addressing Modes
- 8 x 8 Unsigned Multiply Instruction
- True Bit Manipulation
- Complete Development Support on DOS/ WINDOWS™ Real-Time Emulator
- Full Software Package on DOS/WINDOWS™ (C-Compiler, Cross-Assembler, Debugger)



PQFP64

Device Summary

Features	ST7250A6	ST7250B4
ROM bytes	32 Kbytes	20 Kbytes
RAM bytes	1 Kbytes	512 bytes
EEPROM	384 bytes	256 bytes
Timers	2	2
PWM	1	1
WDG	1 (Hardware)	1 (Hardware)
SCIP	1	1
SPI	1	1
CAN	1	1
ADC	1	1
Package	PQFP64	PQFP64

Rev. 1.2