

World's first sub-1V, 8-pin Microcontroller

EM6682 has a 3kB mask ROM memory. It comes in a small 8-pin SO and TSSOP packages and have a high integration level for best use in battery-operated and cost sensitive applications.

Key Features

- ❑ Small 8-pin package
- ❑ True Low Current
- ❑ 4-bit ADC or 12 levels Voltage Level detector
- ❑ High drive outputs
- ❑ No external component
- ❑ Large supply voltage range from 0.9V up to 5.5V
- ❑ CPU clock: can be selected from 32kHz to 800kHz on the fly

& BENEFITS

- ✓ Ideal for portable and battery-operated applications
- ✓ Suitable for one 1.5V cell-battery
- ✓ Useful in simple analog sensing applications
- ✓ Save PCB space
- ✓ Cost effective
- ✓ Compatible with EM6580 flash version

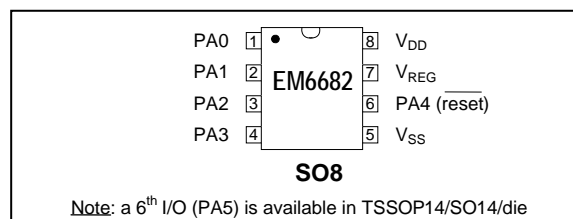
And more...

- ❑ Max 5/6* I/Os with 2 high drive outputs of 25mA
- ❑ Power-On-Reset with brownout control
- ❑ Original EM design: Sleep Counter Reset (automatic wake-up from sleep mode)
- ❑ Internal RC oscillator 32 kHz – 800 kHz with outstanding stability
- ❑ 8-bit serial interface

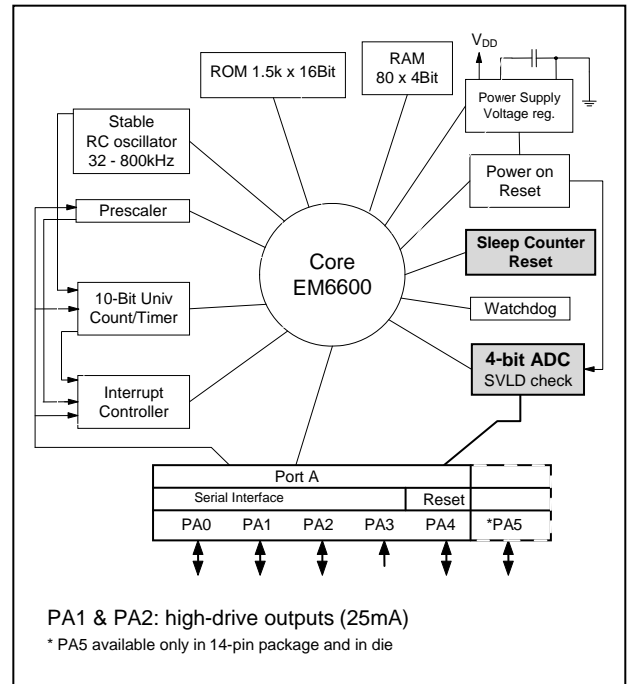
	EM6682
Memory	ROM 1536 x 16 bit
Supply voltage	0.9 V to 5.5 V
Current	active 32kHz 4.0 µA standby 32kHz 3.0 µA sleep (no clock) 0.35 µA
Package	SO-8/14* TSSOP-14*

Tools & Services

- ❑ Easy to use, well-proven simulator and emulator
- ❑ Windows-based software programs
- ❑ Programmer available
- ❑ Demo board available

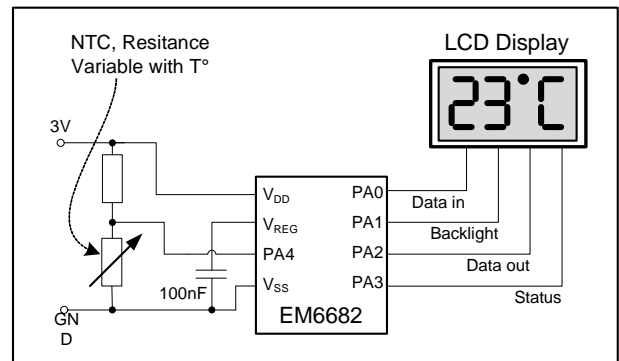


Pin Configuration



Block Diagram

Example of Application



4-bit ADC in Temperature Sensing Application

Typical Applications

- ❑ Domestic Appliances & Toys
- ❑ Safety and security devices
- ❑ Communication
- ❑ Sensor interfaces
- ❑ Watchdog
- ❑ Intelligent ADC
- ❑ Driver (LED, triac)