

## Analog Timer Circuit

Manufacturers	<a href="#">Intel Corp</a>
Package/Case	DIP-24
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

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[RFQ](#)

## General Description

P82C54-2 is a programmable interval timer/counter chip that was manufactured by Intel Corporation. It is a member of the MCS-85 family of microcontrollers and is widely used in embedded systems and industrial automation applications.

### Features

It has three independent 16-bit counters, which can be programmed to function either as timers or as event counters.

It has two modes of operation: the mode 0 is a single-shot mode, while the mode 2 is an interval mode.

It has a programmable prescaler, which can divide the input clock frequency by a factor of 1, 2, 4, 8, 16, 32, 64, or 128.

It has a programmable output control, which can generate a square wave with a programmable duty cycle or can operate as a pulse generator.

It has a read-back capability, which allows the microcontroller to read the current count value of each counter.

### Application

Generating accurate time delays and pulse widths in embedded systems.

Controlling the frequency of periodic events, such as motor speed or signal processing.

Measuring the duration of external events, such as pulse widths or intervals.

Implementing real-time clocks and timers in electronic devices.





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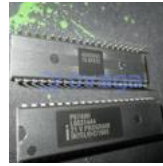
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