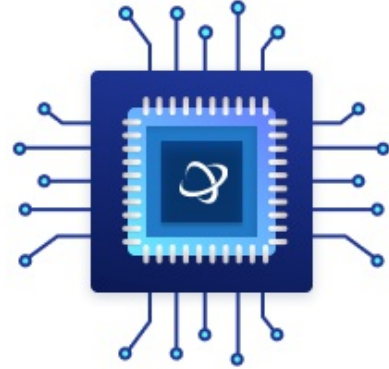


## Programmable VersaClock® Clock Generator

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	
Product Type	Clock & Timer ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for 5P35023B-000NLGI or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

RFQ

## General Description

The 5P35023 is a VersaClock programmable clock generator and is designed for low power, consumer, and high performance PCI Express applications. The 5P35023 device is a three PLL architecture design, and each PLL is individually programmable and allowing for up to five unique frequency outputs. The 5P35023 has built-in unique features such as Proactive Power Saving (PPS), Performance-Power Balancing (PPB), Overshot Reduction Technology (ORT) and Extreme Low Power DCO. An internal OTP memory allows the user to store the configuration in the device without programming after power up, then program the 5P35023 again through the I2C interface.

The device has programmable VCO and PLL source selection to allow the user to do power-performance optimization base on the application requirements. It also supports three single-ended output and two pair of differential outputs that support LVCMOS, LVPECL, LVDS and LPHCSL. A Low Power 32.768kHz clock is supported with only less than 5µA current consumption for system RTC reference clock.

## Features

Configurable OE pin function as OE, PD#, PPS or DFC control function

Configurable PLL bandwidth/minimizes jitter peaking

PPS: Proactive Power Saving features save power during the end device power down mode

PPB: Performance- Power Balancing feature allows minimum power consumption base on required performance

DFC: Dynamic Frequency Control feature allows up to 4 difference frequencies switch dynamically

Spread Spectrum clock support to lower system EMI

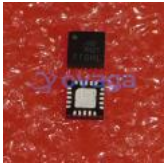
I2C interface

Also supports crystal input

Supported by **Timing Commander™ software tool**

Available in AEC-Q100 qualified, Grade 2 (-40°C to +105°C) version

## Related Products



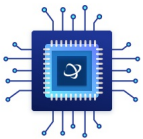
### [5P35021-000NDGI](#)

Renesas Technology Corp  
20-VFQFN



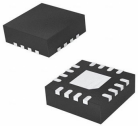
### [5PB1108CMGI](#)

Renesas Technology Corp  
QFN-16



### [5P49V6901A000NLGI](#)

Renesas Technology Corp



### [5P49V6965A000NLGI](#)

Renesas Technology Corp  
24-VFQFN



### [5PB1108PGGI](#)

Renesas Technology Corp  
TSSOP-16



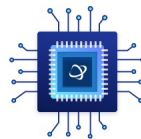
### [5PB1102PGGI](#)

Renesas Technology Corp  
TSSOP-8



### [5P49V6975A000LTGI](#)

Renesas Technology Corp  
24-LFLGA



### [5P49V5925B000NLGI8](#)

Renesas Technology Corp