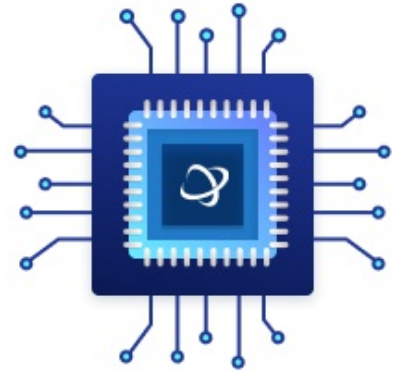


VersaClock® 6 Low Power Programmable Clock Generator

Manufacturers	Renesas Technology Corp
Package/Case	
Product Type	Clock & Timer ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for 5P49V6901A000NLGI or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The 5P49V6901 is a programmable clock generator intended for high performance consumer, networking, industrial, computing, and data-communications applications. Configurations may be stored in on-chip One-Time Programmable (OTP) memory or changed using I2C interface. This is IDT's sixth generation of programmable clock technology (VersaClock® 6). The frequencies are generated from a single reference clock. The reference clock can come from one of the two redundant clock inputs. A glitchless manual switchover function allows one of the redundant clocks to be selected during normal operation.

Two select pins allow up to 4 different configurations to be programmed and accessible using processor GPIOs or bootstrapping. The different selections may be used for different operating modes (full function, partial function, partial power-down), regional standards (US, Japan, Europe) or system production margin testing. The device may be configured to use one of two I2C addresses to allow multiple devices to be used in a system.

Features

4 universal outputs LVPECL, LVDS, HCSL - or 8 LVCMOS outputs

In-system programmable with 4 independent Output Frequencies

Up to 350 MHz input/output frequencies

Also supports crystal input

Stores 4 different configurations in OTP non-volatile memory

< 100 mW core power (at 3.3V)

< 0.5 ps RMS phase jitter (typ)

Meets PCIe® Gen1/2/3, USB 3.0, 1/10 GbE clock requirements

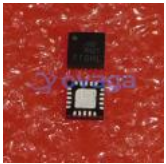
1.8 / 2.5 / 3.3V core and output voltages

4x4 mm 24-ld VFQFPN

-40° to +85°C operating temperature range

Supported by **IDT Timing Commander™** software tool

Related Products



[5P35021-000NDGI](#)

Renesas Technology Corp
20-VFQFN



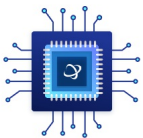
[5PB1108CMGI](#)

Renesas Technology Corp
QFN-16



[5P49V6975A000LTGI](#)

Renesas Technology Corp
24-LFLGA



[5P35023B-000NLGI](#)

Renesas Technology Corp



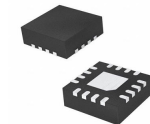
[5PB1108PGGI](#)

Renesas Technology Corp
TSSOP-16



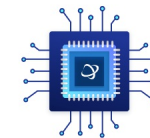
[5PB1102PGGI](#)

Renesas Technology Corp
TSSOP-8



[5P49V6965A000NLGI](#)

Renesas Technology Corp
24-VFQFN



[5P49V5925B000NLGI8](#)

Renesas Technology Corp