

## Programmable Mixed Signal Array 5V 20-Pin TSSOP



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Renesas Technology Corp](#)

**Package/Case:** TSSOP-20

**Product Type:** Programmable Logic ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

## General Description

## Key Features

In-System Programmability

Multiple Time Programmable Memory

Wide Range Power Supply  
2.5 V ( $\pm 8\%$ ) to 5 V ( $\pm 10\%$ )  $V_{DD}$

1.8 V ( $\pm 5\%$ ) to 5 V ( $\pm 10\%$ )  $V_{DD2}$  ( $V_{DD2} \leq V_{DD}$ )

Operating Temperature Range:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

RoHS Compliant / Halogen-Free

## Macrocells Overview

Two High Speed General Purpose Rail-to-Rail Analog Comparators (ACMPxH);

Two Low Power General Purpose Rail-to-Rail Analog Comparators (ACMPxL);

Two Voltage References (Vref)  
Two Vref Outputs;

Eleven Combination Function Macrocells:  
Three Selectable DFF/Latch or 2-bit LUTs;

One Selectable Programmable Pattern Generator or 2-bit LUT;

Six Selectable DFF/Latch or 3-bit LUTs;

One Selectable Pipe Delay or Ripple Counter or 3-bit LUT;

Eight Multi-Function Macrocells:  
Seven Selectable DFF/Latch or 3-bit LUTs + 8-bit Delay/Counters;

One Selectable DFF/Latch or 4-bit LUT + 16-bit Delay/Counter;

Serial Communications:  
 $I^2C$  Protocol Interface;

2-Kbit (256 x 8)  $I^2C$ -Compatible (2-Wire) Serial EEPROM emulation with Software Write Protection;

Programmable Delay with Edge Detector Output;

Deglitch Filter with Edge Detector;

Three Oscillators (OSC):  
2.048 kHz Oscillator;

2.048 MHz Oscillator;

25 MHz Oscillator;

Analog Temperature Sensor;

Power On Reset (POR).

## Recommended For You

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**SLG46811V**

Renesas Technology Corp  
12-UFQFN

**SLG46620V**

Renesas Technology Corp  
STQFN-20

**SLG46621V**

Renesas Technology Corp  
STQFN-20

**SLG46120V**

Renesas Technology Corp  
12-UFQFN

**SLG46538V**

Renesas Technology Corp  
STQFN-20

**SLG47004V**

Renesas Technology Corp  
24-UFQFN

**SLG46110V**

Renesas Technology Corp  
STQFN-12

**SLG46826V**

Renesas Technology Corp  
STQFN-20(2mmx3mm)

**SLG46537V**

Renesas Technology Corp  
20-UFQFN

**SLG46824V**

Renesas Technology Corp  
20-UFQFN

**SLG46140V**

Renesas Technology Corp  
14-UFQFN

**SLG46536V**

Renesas Technology Corp  
IC

**SLG46620G**

Renesas Technology Corp  
TSSOP20

**SLG46620VTR**

Renesas Technology Corp  
STQFN-14

**X88C75JISLIC**

Renesas Technology Corp  
PLCC