

## Advanced Dual PWM and Dual Linear Power Controller 28-Pin SOIC W



Images are for reference only

[Inquiry](#)

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

**Package/Case:** SOP28

**Product Type:** Power Management ICs

**Lifecycle:** Obsolete

### General Description

#### Key Features

- Provides 4 Regulated Voltages
  - Microprocessor Core, AGP Bus, North/South Bridge and/or Cache Memory, and GTL Bus Power
- Drives N-Channel MOSFETs
- Linear Regulator Drives Compatible with both MOSFET and Bipolar Series Pass Transistors
- Simple Single-Loop Control Designs
  - Voltage-Mode PWM Control
- Fast PWM Converter Transient Response
  - High-Bandwidth Error Amplifiers
  - Full 0% to 100% Duty Ratios
- Excellent Output Voltage Regulation
  - Core PWM Output:  $\pm 1\%$  Over Temperature
  - AGP Bus PWM Output:  $\pm 3\%$  Over Temperature (1.5V Setting Only)
  - Other Outputs:  $\pm 3\%$  Over Temperature
- TTL-Compatible 5 Bit DAC Microprocessor Core Output Voltage Selection
  - Wide Range - 1.3VDC to 3.5VDC
- Power-Good Output Voltage Monitor
- Over-Voltage and Over-Current Fault Monitors
  - Switching Regulators Use MOSFET's  $r_{DS(ON)}$  Sensing
- Small Converter Size
  - Constant Frequency Operation
  - 200kHz Free-Running Oscillator; Programmable From 50kHz to Over 1MHz
  - Small External Component Count

### Recommended For You

**HIP4080AIBZ**

Renesas Technology Corp  
SOP20

**HIP4082IPZ**

Renesas Technology Corp  
DIP16

**HIP4082IBZ**

Renesas Technology Corp  
SOP16

**HIP6008CB**

Renesas Technology Corp  
SOP16

**HIP4080AIPZ**

Renesas Technology Corp  
DIP20

**HIP1015CB**

Renesas Technology Corp  
SOP8

**HIP6020ACB-T**

Renesas Technology Corp  
SOP-8

**HIP6021ACB**

Renesas Technology Corp  
SOP28

**HIP1011BCB**

Renesas Technology Corp  
SOP

**HIP6500BCB-T**

Renesas Technology Corp  
SOP20

**HIP1011ACB**

Renesas Technology Corp  
SOP16

**HIP6201CB**

Renesas Technology Corp  
SOP8

**HIP1011CB**

Renesas Technology Corp  
SOP

**HIP6503CB**

Renesas Technology Corp  
SOP20

**HIP6500BCB**

Renesas Technology Corp  
SOP20