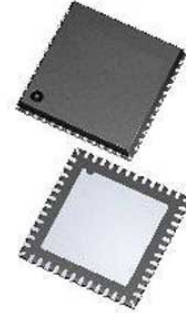


IC CONVERTER IMVP7 VR12 48TQFN HT SUS CODE:8542390000

Manufacturers	Renesas Technology Corp
Package/Case	QFN48
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL95831HRTZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Compliant with IMVP-7/VR12™, the ISL95831 provides a complete solution for microprocessor and graphic processor core power supply. It provides two Voltage Regulators (VRs) with three integrated gate drivers. The first VR can be configured as 3-, 2- or 1-phase VR while the second output is 1-phase VR, providing maximum flexibility. The two VRs share the serial control bus to communicate with the CPU and achieve lower cost and smaller board area compared with the two-chip approach. Based on Intersil's Robust Ripple Regulator (R3) technology™, the PWM modulator compared to traditional modulators, has faster transient settling time, variable switching frequency during load transients and has improved light load efficiency with its ability to automatically change switching frequency. The ISL95831 has several other key features. Both outputs support DCR current sensing with single NTC thermistor for DCR temperature compensation or accurate resistor current sensing. Both outputs come with remote voltage sense, programmable VBOOT voltage, programmable IMAX, TMAX, adjustable switching frequency, OC protection and separate Power-Good.

Features

Serial Data Bus

Dual Outputs:

Configurable 3-, 2- or 1-phase for the 1st Output using 2 integrated Gate Drivers

1-phase for the 2nd Output using an Integrated Gate Driver

0.5% System Accuracy Over-Temperature

Supports Multiple Current Sensing Methods

Lossless Inductor DCR Current Sensing

Precision Resistor Current Sensing

Differential Remote Voltage Sensing

Programmable V_{BOOT} Voltage at Start-up

Resistor Programmable I_{MAX} , T_{MAX} for Both Outputs

Adaptive Body Diode Conduction Time Reduction

Related Products



[ISL6262ACRZ](#)

Renesas Technology Corp
QFN-48



[ISL6294IRZ-T](#)

Renesas Technology Corp
QFN-8



[ISL21080CIH315Z-TK](#)

Renesas Technology Corp
SOT-23-3



[ISL6506BCBZ](#)

Renesas Technology Corp
SOP-8



[ISL6377HRZ-T](#)

Renesas Technology Corp
QFN-48



[ISL62771HRTZ-T](#)

Renesas Technology Corp
40-WFQFN Exposed Pad



[ISL62771HRTZ](#)

Renesas Technology Corp
QFN40



[ISL95808HRZ-T](#)

Renesas Technology Corp
DFN-8