

Robust Ripple Regulator (R3) Controller, AMD Fusion SVI 2.0 CPU GPU Voltage Regulator IC 2 Output 40-TQFN (5x5)

Manufacturers	<u>Renesas Technology Corp</u>
Package/Case	40-WFQFN Exposed Pad
Product Type	Voltage Regulators
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL62771HRTZ-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL62771 is fully compliant with AMD Fusion SVI 2.0 and provides a complete solution for microprocessor and graphics processor core power. The ISL62771 controller supports two Voltage Regulators (VRs) with three integrated gate drivers. The Core VR supports 2-, or 1-phase configurations while the Northbridge VR supports 1-phase operation. The two VRs share a serial control bus to communicate with the AMD CPU and achieve lower cost and smaller board area compared with two-chip solutions. The PWM modulator is based on Intersil's Robust Ripple Regulator R3™ Technology. Compared to traditional modulators, the R3 modulator can automatically change switching frequency for faster transient settling time during load transients and improved light-load efficiency. The ISL62771 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 utilize remote voltage sense, adjustable switching frequency, OC protection and power-good.

Features

Supports AMD SVI 2.0 serial data bus interface

Serial VID clock frequency range 100kHz to 25MHz

Dual output controller with integrated drivers

Precision voltage regulation

0.5% system accuracy over-temperature

0.5V to 1.55V in 6.25mV steps

Enhanced load line accuracy

Supports multiple current sensing methods

Lossless inductor DCR current sensing

Precision resistor current sensing

Programmable 1- or 2-phase for the core output

Adaptive body diode conduction time reduction

Superior noise immunity and transient response

Output current and voltage telemetry

Differential remote voltage sensing

High efficiency across entire load range

Programmable VID offset and droop on both outputs

Programmable switching frequency for both outputs

Excellent dynamic current balance between phases

Protection: OCP/WOC, OVP, PGOOD and thermal monitor

Small footprint 40 Ld 5x5 TQFN package

Pb-free (RoHS compliant)



Related Products



[ISL6262ACRZ](#)

Renesas Technology Corp
 QFN-48



[ISL6294IRZ-T](#)

Renesas Technology Corp
 QFN-8



[ISL21080CIH315Z-TK](#)

Renesas Technology Corp
 SOT-23-3



[ISL6506BCBZ](#)

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[ISL6377HRZ-T](#)

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[ISL95808HRZ-T](#)

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8pin-DFN