

IC CONTROLLER DUAL 48QFM

Manufacturers	Renesas Technology Corp
Package/Case	QFN-48
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL6377HRZ-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com). We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL6377 is fully compliant with AMD Fusion™ SVI 2.0 and provides a complete solution for microprocessor and graphics processor core power. The ISL6377 controller supports two Voltage Regulators (VRs) with three integrated gate drivers and three optional external drivers for maximum flexibility. The Core VR can be configured for 4-, 3-, 2-, or 1-phase operation while the Northbridge VR supports 2- or 1-phase configurations. 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 ISL6377 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

Two dedicated core drivers

One programmable driver for either core or Northbridge

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-, 2-, 3- or 4-phase for the core output and 1- or 2-phase for the Northbridge 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 slew rate

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

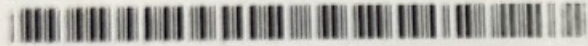
Small footprint 48 Ld 6x6 QFN package

Pb-free (RoHS compliant)

(P) CUST P/N: LITE-ON/ODM



(1P) RENESAS P/N: ISL6377HRZ-T



(1T) LOT NBR: V1MS71.1A



Product of TAIWAN

Chips from TAIWAN

(1D): 2015 (2D):

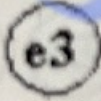
(Q)QTY: 4000 EA LLQ: 4000

MSL 3 PBT : 260 Deg C

(V)SUPPLIER: RENESAS



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RENESAS



Related Products



[ISL6262ACRZ](#)

Renesas Technology Corp
QFN-48



[ISL6294IRZ-T](#)

Renesas Technology Corp
QFN-8



[ISL21080CIH315Z-TK](#)

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[ISL62771HRTZ-T](#)

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40-WFQFN Exposed Pad



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[ISL95808HRZ-T](#)

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[ISL6625ACRZ-T](#)

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8pin-DFN