


Voltage Regulator 40-Pin QFN EP Tube

Manufacturer:	Renesas Technology Corp
Package/Case:	QFN40
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

Compliant with IMVP-7/VR12™, the ISL95835 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 ISL95835 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. The ISL95837 can be considered as ISL95835 dedicated for 1+1 application. VR1 and VR2 are both 1-phase VR.

Key Features

Serial Data Bus

Dual Outputs:

Configurable 1-phase for the 1st Output using an integrated Gate Driver

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



Recommended For You

ISL83202IBZ

Renesas Technology Corp

SOP16

ISL9492ERZ

Renesas Technology Corp

QFN

ISL6520ACBZ-T

Renesas Technology Corp

SOP8

ISL62883CHRTZ

Renesas Technology Corp

QFN

ISL95836HRTZ-T

Renesas Technology Corp

QFN40

ISL95837HRZ-T

Renesas Technology Corp

QFN40

ISL9301HRZ

Renesas Technology Corp

DFN10

ISL95835HRZ

Renesas Technology Corp

QFN

ISL95812HRZ

Renesas Technology Corp

QFN

ISL95870HRUZ-T

Renesas Technology Corp

QFN16

ISL6521HBZ

Renesas Technology Corp

SOP16

ISL62882CHRTZ

Renesas Technology Corp

QFN

ISL95870BIRZ-T

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ISL78214ARZ

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ISL88739HRZ

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