

Notebook computers 32-Pin TQFN EP Tube

Manufacturer: [Renesas Technology Corp](#)

Package/Case: QFN

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

Fully compliant with Intel VR12.5, VR12.6 and VR12.6+™ specifications, the ISL95812 provides a complete solution for microprocessor core power supply. It provides a Voltage Regulator (VR) with two integrated and one external gate drivers. The VR can be configured as 3-, 2- or 1-phase, providing maximum flexibility. The VR uses the serial control bus (SVID) to communicate with the CPU and achieves lower cost and smaller board area. 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 ISL95812 has several other key features. The output supports DCR current sensing with single NTC thermistor for DCR temperature compensation or accurate resistor current sensing. The output comes with remote voltage sense, programmable VBOOT voltage, programmable ICCMAX, programmable voltage transition slew rate, adjustable switching frequency, overcurrent protection and Power-Good output.

Key Features

Serial data bus

Output configurable 3-, 2- or 1-phase using two integrated gate drivers

Precision core voltage regulation

0.5% system accuracy over-temperature

Enhanced load line accuracy

Supports multiple current sensing methods

Lossless inductor DCR current sensing

Precision resistor current sensing

Differential remote voltage sensing

Programmable VBOOT voltage at start-up

Resistor programmable ICCMAX and voltage transition slew rate

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

ISL95837HRZ

Renesas Technology Corp
QFN40

ISL9301HRZ

Renesas Technology Corp
DFN10

ISL95835HRZ

Renesas Technology Corp
QFN

ISL95870HRUZ-T

Renesas Technology Corp
QFN16

ISL6521IBZ

Renesas Technology Corp
SOP16

ISL62882CHRTZ

Renesas Technology Corp
QFN

ISL95870BIRZ-T

Renesas Technology Corp
QFN20

ISL78214ARZ

Renesas Technology Corp
QFN

ISL88739HRZ

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