

Switching Controllers INTEL IMVP7 1+1 NOTE BOOK CPUG 32LD 4X4T

Manufacturers	Renesas Technology Corp
Package/Case	QFN-32
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL95833HRTZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL95833 Pulse Width Modulation (PWM) controller IC provides a complete solution for IMVP-7/VR12™ compliant microprocessor and graphic processor core power supplies. It provides the control and protection for two Voltage Regulators (VRs). The first VR, typically for VCORE, incorporates 1 integrated driver and can operate in 2- or 1-phase configurations. The second VR, typically for Graphics, is a single phase regulator incorporating an integrated driver. The two VRs share a serial control bus to communicate with the CPU and achieve lower cost and smaller board area compared with the two-chip approach. Both VRs utilize Intersil's Robust Ripple Regulator R3 Technology™. The R3 modulator has numerous advantages compared to traditional modulators, including faster transient response, variable switching frequency during load transients, and improved light load efficiency due to its ability to automatically change switching frequency. The ISL95833 has several other key features. Both outputs support either DCR current sensing with a single NTC thermistor for DCR temperature compensation, or more precise resistor current sensing if desired. Both outputs come with remote voltage sense, programmable VBOOT voltage, IMAX, and switching frequency, adjustable overcurrent protection and separate Power-Good signals.

Features

Serial Data Bus

Dual Outputs:

Configurable 2- or 1-phase for the 1st Output using one Integrated Gate Driver

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

R3 Modulator

Excellent Transient Response

High Light Load Efficiency

0.5% System Accuracy Over-Temperature

Supports Multiple Current Sensing Methods

Lossless Inductor DCR Current Sensing

Precision Resistor Current Sensing

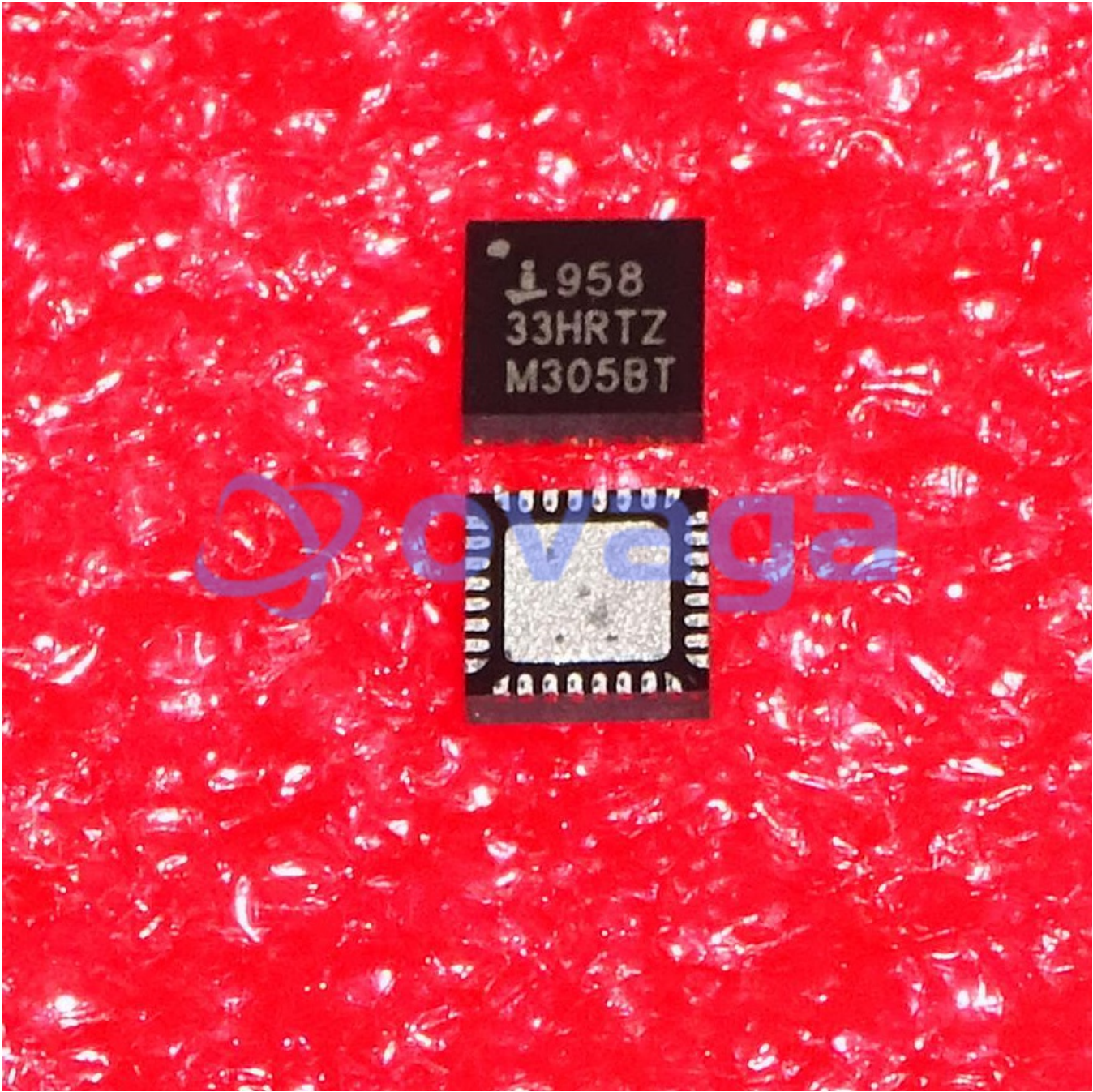
Differential Remote Voltage Sensing

Programmable VBOOT Voltage at Start-up

Resistor Programmable I_{MAX}, Switching Frequency 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](#)

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SOP-8



[ISL6377HRZ-T](#)

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QFN-48



[ISL62771HRTZ-T](#)

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40-WFQFN Exposed Pad



[ISL62771HRTZ](#)

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QFN40



[ISL95808HRZ-T](#)

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DFN-8