

P9148ANRGI8

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Data Sheet

Distributed Power Unit for P91E0A

Manufacturers	Renesas Technology Corp	
Package/Case		े <mark>ं य</mark> य <u>न</u> ें
Product Type	Power Management ICs	
RoHS		√ √ ×
Lifecycle		Images are for reference only
Please submit RFQ for P9148ANRGI8 or <u>Email to us: sales@ovaga.com</u> We will contact you in 12 hours.		

General Description

Flexible output current capabilities are key to address modern multi core SoC solutions with a variety of different skews. The IDT P9148 distributed power units (DPU) operate as additional phases to thePMIC to increase the output current of the solution. The device works as a controlled current source fully controlled by the host PMIC. Multiple P9148 devices may be used in parallel to provide additional current to the load. A high-speed proprietary interface between theand the P9148A provides control and feedback information. The device seamlessly integrates into the PMIC eco-system and is flexible and transparent to the user. P9148A has been designed for systems with single 5V supply available and supports features such as optional thermal limit warning flag, load current monitor and automatic load-balancing among phases).

Features

Single 4.5V to 5.5V input voltage range Output voltage controlled by host PMIC (P91E0A) Up to 6A peak output current per device/phase 2.0MHz switching frequency, internal PWM generation Support automatic phase-shedding, PFM and LDO modes Simple 2-wire interface for device configuration, control and status exchange to the host PMIC Automatic detection by Host PMIC No analog feedback to PMIC required Thermal limit warning flag and load current monitor capability optional Automatic load-balancing and heat re-distribution among phases optional Digital modulation and ML-based error correction Industrial temperature range of -40°C to +85°C $3 \times 4 \text{ mm} 12$ -DFN (NRG12)

Related Products



P9222-RAZGI8 Renesas Technology Corp



P91E0A-I5NHGI

Renesas Technology Corp



Renesas Technology Corp



P91E0-I5NHGI8 Renesas Technology Corp



P91E0A-I5NHGI8

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