

Product Tree

Overview

Description

Features

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 the **P9180A PMIC** (<https://www.idt.com/products/power-management/multi-channel-power-management-solutions-pmic-pmu/p9180a-programmable-multi-channel-pmic-solution>) and **P9145 PMIC** (<https://www.idt.com/products/power-management/multi-channel-power-management-solutions-pmic-pmu/p9145-programmable-multi-channel-pmic-solution-intel-baytrail-atom>) 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 the P9180A, P9145 and the P9148 provides control and feedback information. The device seamlessly integrates into the PMIC eco-system and is flexible and transparent to the user. P9148 has been designed for systems with single 5V supply available and supports additional features compared to P9147 (optional thermal limit warning flag, load current monitor and automatic load-balancing among phases).



Documentation


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All Types

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Product Change Notice	<p>PCN# : 220019 Add Alternate Assembly Locations on VFQFPN and FCLGA Packages</p> <p>(/us/en/document/pcn/pcn-220019-add-alternate-assembly-locations-vfqfpn-and-fclga-packages?r=165901)</p>	Jul 22, 2022



Application Note

[\(/us/en/document/apn/idtp914x-layout-guide?r=165901\)](/us/en/document/apn/idtp914x-layout-guide?r=165901)

Jul 17, 2014

PDF 428 KB 简体中文

[\(/us/en/document/apn/idtp914x-layout-](/us/en/document/apn/idtp914x-layout-)

3 items

Design & Development

Boards & Kits

Models

Boards & Kits

[\(/us/en/products/power-management/multi-channel-power-management-ics-pmics/usb-bridgev2-eval-usb-i2c-dongle\)](/us/en/products/power-management/multi-channel-power-management-ics-pmics/usb-bridgev2-eval-usb-i2c-dongle)

USB to I2C Dongle

The USB to I2C dongle allows customers to use their standard PCs to communicate with and control I2C-enabled boards and devices. Standard drivers are provided for...

USB-BRIDGEV2-EVAL

[\(/us/en/products/power-management/multi-channel-power-management-ics-pmics/usb-bridgev2-eval-usb-i2c-dongle\)](/us/en/products/power-management/multi-channel-power-management-ics-pmics/usb-bridgev2-eval-usb-i2c-dongle)

Featured Documents:

USB-BRIDGEV2-EVAL - User Manual

[\(/us/en/document/mah/usb-bridgev2-eval-user-manual\)](/us/en/document/mah/usb-bridgev2-eval-user-manual)

Evaluation

Learn More

[\(/us/en/products/power-management/multi-](/us/en/products/power-management/multi-)

[\(/us/en/products/power-management/multi-channel-power-management-ics-pmics/idtp9145-eval-idtp9145-p9147-p9148-programmable-multi-channel-pmic-solution-intel-baytrail-atom-evaluation-board\)](/us/en/products/power-management/multi-channel-power-management-ics-pmics/idtp9145-eval-idtp9145-p9147-p9148-programmable-multi-channel-pmic-solution-intel-baytrail-atom-evaluation-board)

IDTP9145-EVAL

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Evaluation

Learn More

[\(/us/en/products/power-management/multi-channel-power-management-ics-pmics/idtp9145-eval-idtp9145-p9147-p9148-programmable-multi-](/us/en/products/power-management/multi-channel-power-management-ics-pmics/idtp9145-eval-idtp9145-p9147-p9148-programmable-multi-)

IDTP9145, P9147, P9148 Programmable Multi-Channel PMIC Solution for Intel Baytrail Atom™ Evaluation Board

The IDTP9145-I0NQG-EVAL and IDTP9145-I0NAG-EVAL are evaluation boards for the [IDTP9145 -](#)

[Programmable Triple Channel PMIC](#)

[\(/us/en/products/power-management/multi-channel-power-management-ics-pmics/p9145-programmable-multi-channel-pmic-solution-intel-baytrail-atom\)](/us/en/products/power-management/multi-channel-power-management-ics-pmics/p9145-programmable-multi-channel-pmic-solution-intel-baytrail-atom) and the [IDTP9147](#)

<https://www.idt.com/products/power->

[management/multi-channel-power-management-solutions-pmic-pmu/idtp9147-distributed-power-unit-idtp9145](https://www.idt.com/products/power-management/multi-channel-power-management-solutions-pmic-pmu/idtp9147-distributed-power-unit-idtp9145) /

[P9148](#) [\(/us/en/products/power-](/us/en/products/power-)

[management/multi-channel-power-management-ics-pmics\)](https://www.idt.com/products/power-management/multi-channel-power-management-ics-pmics) distributed power...

Featured Documents:

P9145-I0NAG-EVAL Schematic

[\(/us/en/document/sch/p9145-i0nag-eval-schematic\)](/us/en/document/sch/p9145-i0nag-eval-schematic)

[\(/us/en/products/power-management/multi-channel-power-management-ics-pmics/p9180a-eval-p9180a-and-p9148-programmable-multi-channel-pmic-solution-evaluation-board\)](/us/en/products/power-management/multi-channel-power-management-ics-pmics/p9180a-eval-p9180a-and-p9148-programmable-multi-channel-pmic-solution-evaluation-board)

P9180A-EVAL

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Evaluation

Learn More

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P9180A and P9148 Programmable Multi-Channel PMIC Solution Evaluation Board

The P9180A-EVAL is an evaluation board for the [P9180A - Programmable Multi-Channel PMIC](https://www.idt.com/products/power-management/multi-channel-power-management-solutions-pmic-pmu/p9180-programmable-multi-channel-pmic-solution-intel-baytrail-atom) (<https://www.idt.com/products/power-management/multi-channel-power-management-solutions-pmic-pmu/p9180-programmable-multi-channel-pmic-solution-intel-baytrail-atom>), and the [P9148](https://www.idt.com/products/power-management/multi-channel-power-management-solutions-pmic-pmu/p9148-distributed-power-unit-p9145-p9180) (<https://www.idt.com/products/power-management/multi-channel-power-management-solutions-pmic-pmu/p9148-distributed-power-unit-p9145-p9180>) distributed power units (DPUs). The board provides all necessary...

Featured Documents:

P9180A PMIC Evaluation Board User Guide

[\(/us/en/document/mah/p9180a-pmic-evaluation-board-user-guide\)](/us/en/document/mah/p9180a-pmic-evaluation-board-user-guide)



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Show Filters



Reset



Full Screen

Export



Tips

Filter Parts	Pkg. Type	Lead Count (#)	Carrier Type	Temp. Grade	Pb (Le
P9148NRG18	DFN	12	Reel	I	

Support

Power & Power Management Forum (<https://community.renesas.com/power-management/>)

PMIC FAQs (<https://en-support.renesas.com/knowledgeBase/category/12046/subcategory/12061>)

Contact Technical Support (/us/en/support) **Get Samples**

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