P91E0

Active Samples Available

Programmable Multi-Channel PMIC Solution

The IDT P91E0 is a programmable, multi-channel power management IC (PMIC) designed to meet high performance requirements and provide high-feature integration to minimize system board area and BOM cost. The PMIC includes subsystems for voltage regulation, power sequencing management, A/D conversion, GPIOs, PWMs and others. The P91E0 is factory programmable for application specific sequencing and output voltage requirements. The device supports the serial voltage ID (SVID) interface for VCC, VNN & VDDQ (optional). The output current capability of the P91E0 solution can be increased by adding IDT's intelligent, P9148 distributed power unit (DPU) .

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Features

- 3.135 V to 5.25 V input voltage range
- 7 programmable step-down converters of which 5 with integrated Power FETs
- Supports the P9148 DPU distributed power unit (DPU)
- 8 LDOs, including a VTT
- SVID interface supporting IMVP8 protocol
- 10-bit ADC
- 15 programmable GPIOs and 12 programmable Enable Outputs
- Host interface and system power management functions
- High-speed I^2C interface
- Factory programmable default power sequence and settings
- Industrial temperature range of -40°C to +85°C
- 9 x 9 mm dual-row 100-GQFN (Type3-PCB) package option (NHG100)

Quick Links

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Product Options

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Orderable Part ID	Part Status	Pkg. Code	Pkg. Type	Lead Count (#)	Carrier Type	Temp. Grade	Pb (Lead) Free	Buy Sample
P91E0-I5NHGI	Active	NHG100P1	VFQFPN	100	Tray	I	Yes	Get Samples Buy / Quote
P91E0-I5NHGI8	Active	NHG100P1	VFQFPN	100	Reel	I	Yes	Get Samples Buy / Quote

Tools & Support

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Technical Documentation

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Title	Type	Format	File Size	Date
P91E0 Datasheet for Industrial Temperature Range	Datasheet	PDF	2.29 MB	Nov 2, 2018

Evaluation Boards

Part Number	Title
USB-BRIDGEV2-EVAL	USB to I2C Dongle
P91E0-EVAL	P91E0 and P9148 Programmable Multi-Channel PMIC Solution Evaluation Board

News & Additional Resources

	Date
IDT Introduces Latest Generation Highly Integrated, Programmable and Scalable Power Management IC	Jun 28, 2016