Enabling Energy Efficient Solutions

₹ Part #/Keyword

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M Cross - Reference

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Home

Product Taxonomy

DC-DC Controllers, Converters, & Regulators

> **Battery Charge** Controllers (1)

Charge Pumps (6)

Controllers (75)

Converters (120)

Linear Voltage Regulators (245)

Product Services New Products

Home > Products > Product Taxonomy NCP6151 Controllers >

> DC-DC Controllers, Convertors, & Regulators

NCP6151: VR12 2 -, 3-, 4-Phase CPU Controller

+ 1 - Phase GPU Controller

Specifications

»View Material Composition

»No Product Change Notifications exist

print version

Product Description

NCP6151/NCP6151A dual output four plus one phase buck solution is optimized for Intel VR12 compatible CPUs. The controller combines true differential voltage sensing, differential inductor DCR -forward, and adaptive voltage positioning to provide accurately current sensing, input voltage feed regulated power for both desktop and notebook applications. The control system is based on dual edge pulse width modulation (PWM) combined with DCR current sensing providing the fastest initial response to dynamic load events and reduced system cost. It also sheds to single phase during light load operation and can auto frequency scale in light load while maintaining excellent transient performance.

Features

Overview

- · Meets Intel VR12/IMVP7 specifications
- · Current mode dual edge modulation for fastest initial response to transient loading
- · Dual high performance operational error amplifier
- · One digital soft start ramp for both rails

Applications

· Desktop and notebook processors

Technical Information

Application Notes (1)

Package Drawings (2)

Availability and Samples

Product	Status	Pb- free	Description	Package		MSL*	Container		Budgetary
				Туре	Case Outline		Туре	Qty.	Price/Unit
NCP6151AD52MNR2G	Active		VR12 2 -, 3 -, 4-Phase CPU Controller + 1 -Phase GPU Controller	QFN- 52	485AV	1	Tape and Reel	2500	Sample
NCP6151D52MNR2G	Active		VR12 2 -, 3-, 4-Phase CPU Controller + 1 -Phase GPU Controller	QFN- 52	485AV	1	Tape and Reel	2500	Sample
NCP6151NS52MNR2G	Active		VR12 2 -, 3-, 4-Phase CPU Controller + 1 -Phase GPU	QFN- 52	485BE	1	Tape and Reel	2500	Sample
NCP6151S52MNR2G	Active		VR12 2 -, 3-, 4-Phase CPU Controller + 1 -Phase GPU	QFN- 52	485BE	1	Tape and Reel	2500	·
			Controller				Reel		Sample Inventory

Products

Select Product6

Do you also need MOSFET / IGBT Drivers ? Do you also need MOSFETs?

New Products

NCP1091 NCP1092 NCP1093 NCP1094 Integrated PoE detection,

NCP1090

classification, and 'hot swap' controllers

IEEE802.3 compliant with 40 W supported over single Ethernet (NCP1093/4) 3 kV cable discharge and superior ESD immunity for enhanced durability Higher power than competing devices in the same form factor

Design Support

Technical Documentation Design Resources Technical Support Sales Support

Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, non