N Part #/Keyword

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 > DC-DC Controllers, Converters, & Regulators Controllers > NCP6151

print version

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MyON

**Products** 

Select Product6

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

NCP1090

Integrated PoE detection, classification, and 'hot swap' controllers

> compliant with 40 W supported over single Ethernet pair 3 kV cable discharge ESD enhanced durability Higher power than competing devices in the same form factor

**New Products** 

NCP1091 NCP1092 NCP1093 NCP1094

> IEEE802.3 (NCP1093/4) and superior immunity for

## **Design Support**

Technical Documentation Design Resources **Technical** Support Sales Support

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

+ 1 - Phase GPU Controller

Overview

**Specifications** 

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 current sensing, input voltage feed -forward, and adaptive voltage positioning to provide accurately 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

- · 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)

» View Material Composition

»No Product Change Notifications exist

## **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				Reci		Sample Inventory

Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, nor

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