

Product Overview

NCP81140: Multiple-Phase Controller with SVID Interface

For complete documentation, see the data sheet

The NCP81140 Multi-Phase buck solution is optimized for Intel VR12.5 compatible CPUs with user configurations of 4/3/2/1 phases. 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 at reduced system cost. It has the capability to shed to single phase during light load operation and can auto frequency scale in light load conditions while maintaining excellent transient performance.

Applications

· Industrial CPU based applications

End Products

· Infotainment, Mobile, Automation, Medical and Security

Part Electrical Specifications										
Product	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	t _{res} Typ (ns)	Package Type
NCP81140MNTXG	Pb-free Halide free	Active	Step-Down		Voltage Mode	4.75	5.25	600		QFN-32

For more information please contact your local sales support at www.onsemi.com

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