

## NCP81140

# Multiple-Phase Controller with SVID Interface

## **Product Overview**

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**

#### **End Products**

Industrial CPU based applications

Infotainment, Mobile, Automation, Medical and Security

Part Electrical Specifications										
Product	Pricing (\$/Unit)	Complian ce	Status	Topology	Phases	Control Mode	V <sub>CC</sub> Min	V <sub>CC</sub> Max (V)	f <sub>sw</sub> Typ (kHz)	Package Type
NCP81140MNTX G	1.1146	РЬ Н	Active	Step- Down		Voltage Mode	4.75	5.25	600	QFN-32