

## NCP3286

# 40A Stackable Synchronous Buck Regulator with PMBUS Interface

## **Product Overview**

For complete documentation, see the data sheet.

The NCP3286, a highly-efficient stackable synchronous buck regulator with PMBUSTM interface, is capable of operating with an input range from 3V to 18V and supporting up to 40A continuous load currents. Higher output currents can be achieved by 2, 3, or 4 parallel NCP3286 devices operating as an interleaved multi-phase buck regulator.

The NCP3286 utilizes fixed-frequency current-mode control to provide accurate voltage regulation and fast transient response. Flexible programming of function and parameters supports multiple applications.

#### **Features**

- 150°C Operating Junction Temperature
- VOUT: 0.5-5.5V with Remote Output Voltage Sense
- VIN: 3-18V with Input Feed-Forward
- 40A Continuous Output Current Stackable to 160A
- Programmable Fixed Frequency Current Mode Control
- Integrated 5V LDO or External Supply
- Enable with Programmable VIN UVLO
- Programmable Boot-Up Voltage
- Programmable Soft-Start
- Programmable Current Limit
  For more features, see the data sheet

### **Applications**

- · Telecom Digital Baseband and Radio Unit
- · Networking Routers and Switches
- · Server and Desktop Computers, Notebooks, Gaming
- High Density Power Solutions
- DC/DC Modules

#### **End Products**

- · 5G Telecom Baseband and Radio Unit
- · Networking Routers and Switches
- Server and Desktop Computers, Notebooks, Gaming

Part Electrical Specifications																
Product	Status	Compilance	Top olog y	Cont rol Mod e	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	V <sub>o</sub> Typ (V)	I <sub>o</sub> Typ (A)	Effic ienc y (%)	f <sub>sw</sub> Typ (kHz )	Pack age Typ e	Cas e Outli ne	MSL Typ e	MSL Tem p (°C)	Cont aine r Typ e	Cont aine r Qty.
NCP3286MNTX G	Active	H @	Step - Dow n	Curr ent Mod e	3	18	1	40	96	200	WQF N- 34	510 CL.P DF	1	260	REE L	300