

## Product Overview

### NCP5901B: MOSFET Driver, VR12 Compatible, Synchronous Buck

For complete documentation, see the data sheet.

NCP5901 is a high performance dual MOSFET driver optimized to drive the gates of both high- and low-side power MOSFETs in a synchronous buck converter. It can drive up to a 3.0 nF load with a 25 ns propagation delay and 20 ns transition time. Adaptive anti-cross-conduction and power saving operation circuit can provide a low switching loss and high efficiency solution for notebook and desktop systems. Bidirectional EN pin can provide a fault signal to controller when the gate driver fault detect under OVP, UVLO occur. Also, an undervoltage lockout function guarantees the outputs are low when supply voltage is low.

### Features

- Fast rise and fall times
- Adaptive anti-cross-conduction circuit
- Pre-overvoltage function

### Applications

- Vcore Power Subsystems

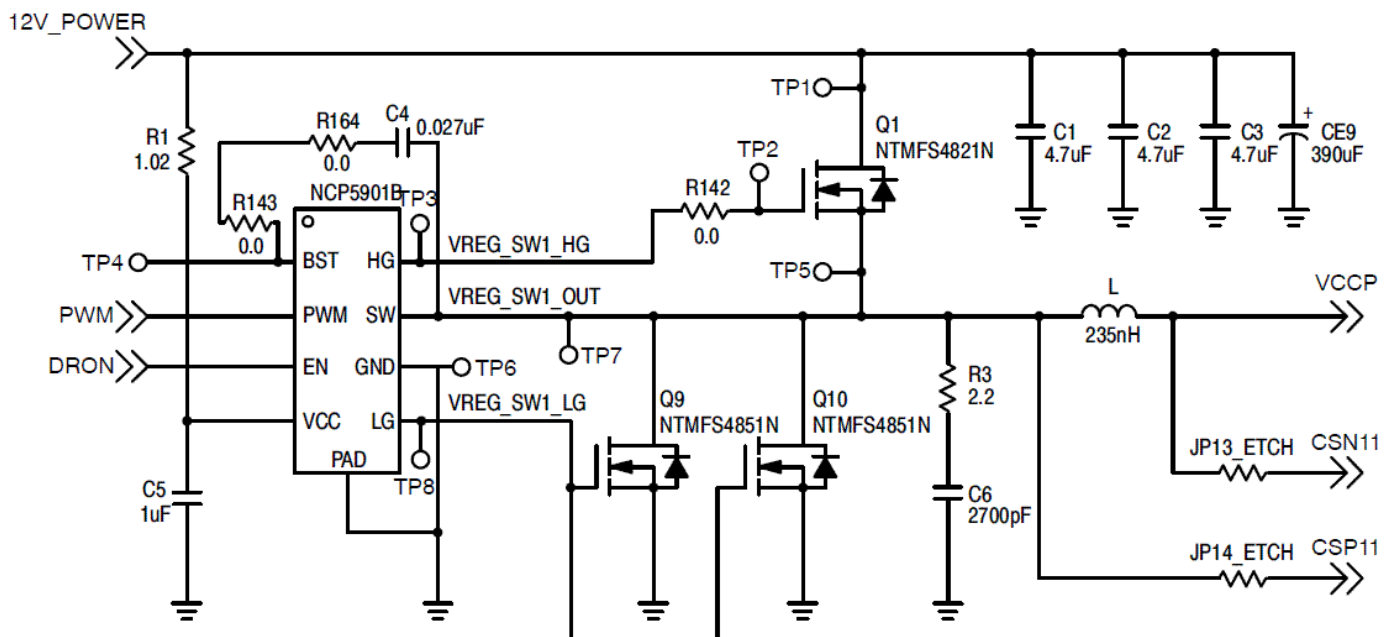
### End Products

- Desktop Computers

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Power Switch	Number of Outputs	Topology	Isolation Type	V <sub>in</sub> Max (V)	V <sub>cc</sub> Max (V)	Drive Source / Sink Typ (mA)	Rise Time (ns)	Fall Time (ns)	t <sub>p</sub> Max (ns)	Package Type
NCP5901BDR2G	0.1533	Pb-free Halide free	Active	MOSFET	2	Half-Bridge	Junction Isolation	35	15	-	16	11	25	SOIC-8
NCP5901BMNTBG	0.1533	Pb-free Halide free	Active	MOSFET	2	Half-Bridge	Junction Isolation	35	15	-	16	11	25	DFN-8

### Application Diagram



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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