

300 W, 19 V Ultra High Power Density GaN Based Adapter

Innovation

Smallest power adapter for Gaming Laptop and Ultra-thin TV utilizing industry-first high voltage half bridge gate driver for E-mode GaN HEMT together with market-leading CrM PFC and LLC controller. At over 30 W/in³ and over 95 % efficiency, the design is 30 % smaller than previous best in class today by operating at 500 kHz nominal switching frequency.

Value Advantage

- ✓ Compact low profile design: 160 x 56 x 18 mm
- ✓ Ultra high power density: up to 32 W/inch³
- ✓ Ultra high efficiency with GaN and semi-bridgeless PFC: up to 96 %
- ✓ Maximum output power: up to 340W
- ✓ Robust production ready reference design

Current Proposition

Industry-first high voltage HB GaN driver, NCP51820

High voltage CrM PFC controller, NCP1616

High performance current mode resonant controller, NCP13992

Synchronous rectifier controller, NCP4306



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