

## ■ General Description

AME5956 is a high efficiency 1.2MHz synchronous step-down DC/DC regulator capable of delivering up to 6A output current. It employs an adaptive COT control providing a fast transient response. It can operate over a wide input voltage range from 2.5V to 5.5V.

AME5956 also provides UVLO, OCP, OTP protection functions. It's available in the FCDNF-8G (2.1 x 1.6 x 0.55 mm) package.

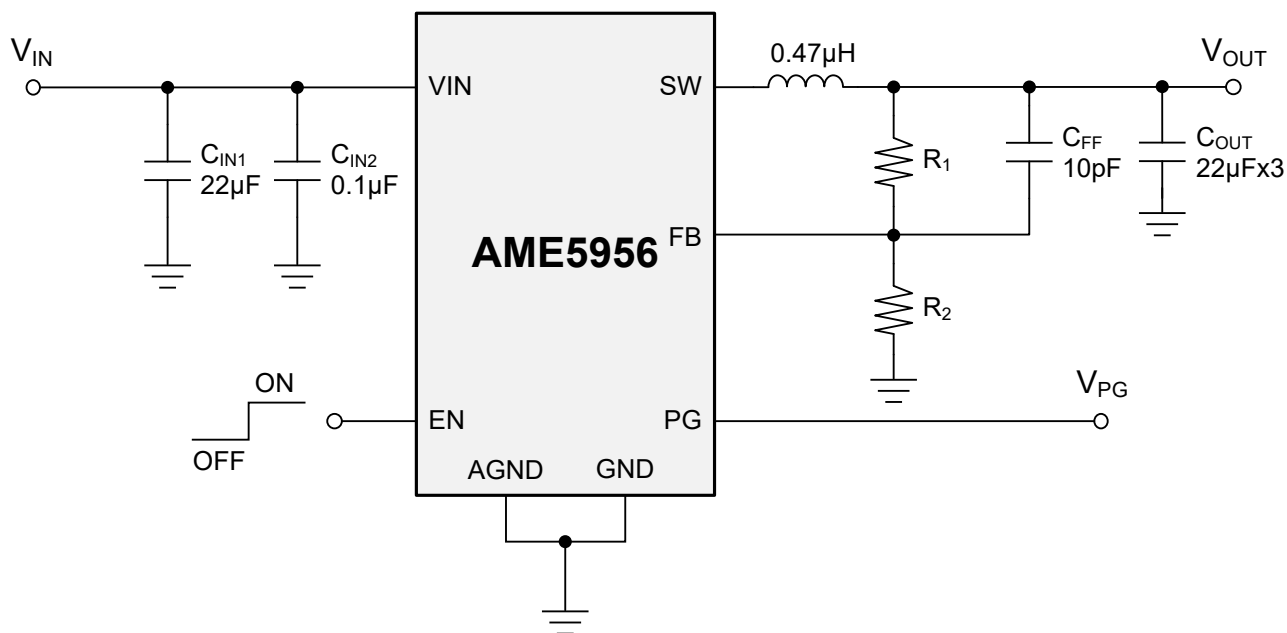
## ■ Application

- Networking Systems
- Flat Panel Monitors
- Laptop Computer
- Table PC

## ■ Features

- Input Voltage Range: 2.5V to 5.5V
- Up to 6A Max Output Current
- Adaptive COT Control
- Ultra-Fast Load Transient Response
- 1.2MHz Switching Frequency
- Forced PWM Mode
- 28 $\mu$ A Quiescent Current
- $\pm 1\%$ , 0.4V Feedback Voltage Accuracy
- Internal 1ms Soft-Start Time
- Hiccup Mode at Short Circuit Protection
- Internal Over Temperature Protection
- Internal Over Current Protection
- Internal Input Under-Voltage Lockout Protection
- Available in FCDNF-8G (2.1 x 1.6 x 0.55 mm) Package
- RoHS, TSCA & HF Compliance

## ■ Typical Application Schematic





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Document: C006-DS5956-A.01

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