

## ■ General Description

AME5903N is a fully integrated high efficiency synchronous step-down converter capable of delivering up to 3A of output current. It employs an adaptive COT control providing a fast transient response. It can operate over a wide input voltage range from 4V to 18V. AME5903N also provides UVLO, OCP, and OTP protection functions. It's available in the SOT-563 package.

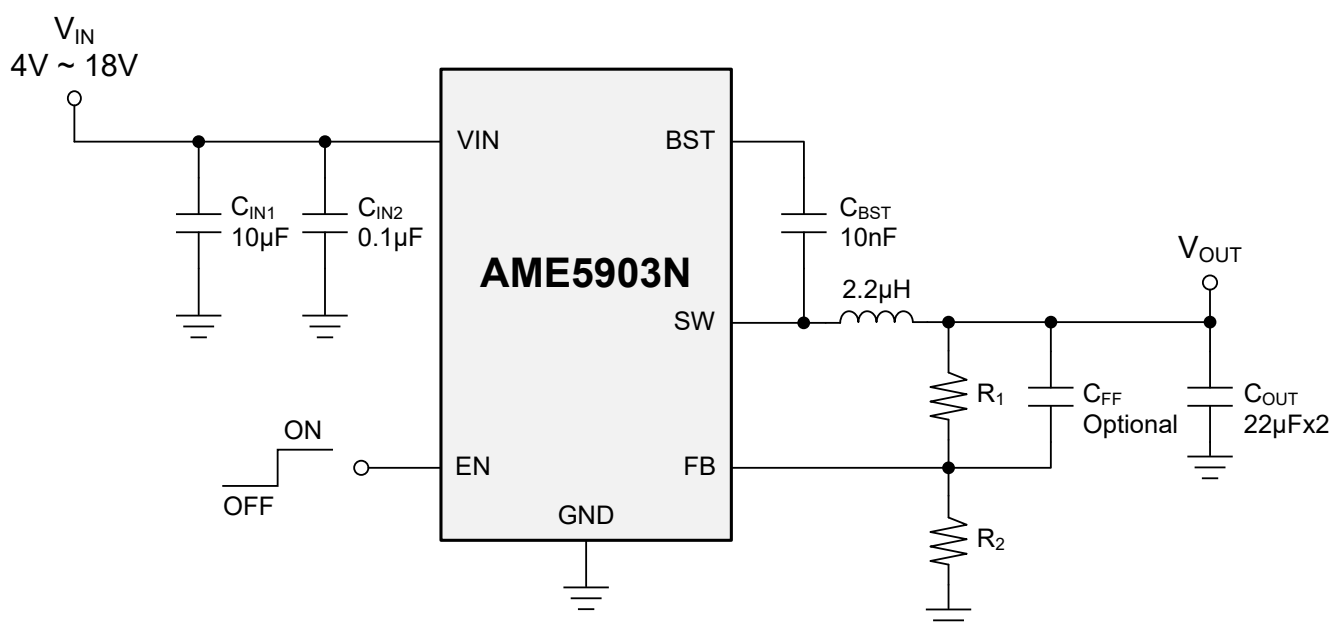
## ■ Features

- Input Voltage Range: 4V to 18V
- Output Voltage Range: 0.6V to 5.5V
- $\pm 1\%$ , 0.6V Feedback Voltage Accuracy
- 3A Continuous Output Current
- 1.0MHz Switching Frequency
- Low  $R_{DS(on)}$  Internal Switches (High/Low Side):  
85m $\Omega$  / 35m $\Omega$
- Internal Over Temperature Protection
- Internal Over Current Protection
- Internal Input Under-Voltage Lockout Protection
- RoHS, TSCA & HF Compliance

## ■ Application

- Networking Systems
- Personal Video Recorders
- Flat Panel Monitors
- Laptop Computer
- Table PC

## ■ Typical Application Schematic





**www.ame.com.tw**

**E-mail: sales@ame.com.tw**

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AME, Inc. reserves the right to make changes in the circuitry and specifications of its devices and advises its customers to obtain the latest version of relevant information.

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**Corporate Headquarter  
AME, Inc.**

8F-1, 12, WenHu St., Nei-Hu Dist.,

Taipei 114, Taiwan..

Tel: 886 2 2627-8687

Fax: 886 2 2659-2989