

## High Output Accuracy Boost Regulator

### FEATURES

- 2.5V to 5.5V Input Supply
- 640k/1.2MHz Switching Frequency
- Current-Mode Boost Regulator
- Integrated 24V/1.6A 200mΩ FET
- Fast Transient Response to Pulsed Load
- High Efficiency Up to 90%
- Adjustable High-Accuracy Output Voltage
- Adjustable or Fixed Soft-Start
- Over Current Protection
- Output Under Voltage Protection
- Over Temperature Protection
- Small MSOP-8/WDFN2x2-6 Package

### APPLICATIONS

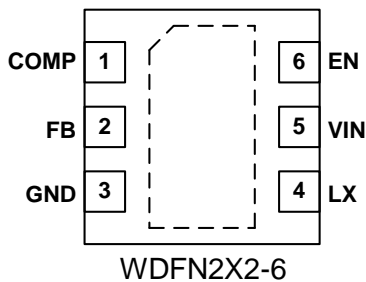
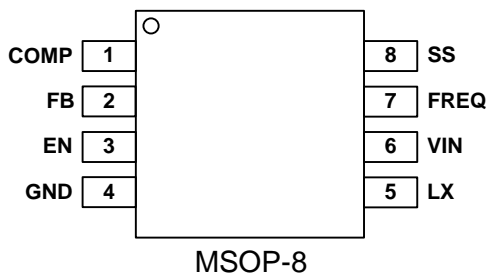
- TFT LCD Bias Power Supply
- DSL Modem
- PCMCIA Card
- GPS Receiver
- Car Navigation Display
- Portable equipment

### DESCRIPTION

The ANX6701 is a high performance step-up converter that operates at a fixed switching frequency. ANX6701AAD operates at the frequency of 1.2MHz, ANX6701AAM operates at the frequency of 1.2MHz (FREQ=high) and 600kHz (FREQ=low). The high switching frequency allows the use of small inductors and fast transient response. The integrated N-channel FET has a typical current limit of 1.6A and can support output voltages up to 24V.

To minimize the inrush current a built-in soft start circuit sets the soft start period to 3.4ms. ANX6701AAM supports to extend this period by connecting an optional capacitor to the SS pin. Loop response can be adjusted by external RC compensation. The ANX6701 is available in a thin MSOP-8L (ANX6701AAM) or WDFN2x2-6L (ANX6701AAD) green package.

### Pin Configuration (Top View)



### Ordering Information

Part Number	Package
ANX6701AAM	MSOP – 8L
ANX6701AAD	WDFN – 6L, 2x2