

**DC/DC Cntrlr Single-OUT Step Up 1000kHz 8-Pin VSSOP  
T/R****Manufacturer:** [Texas Instruments, Inc](#)**Package/Case:** MSOP8**Product Type:** Power Management ICs**Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

The LM3488 is a versatile low-side N-FET high-performance controller for switching regulators. This device is suitable for use in topologies requiring low-side FET, such as boost, flyback, or SEPIC. Moreover, the LM3488 can be operated at extremely high switching frequency to reduce the overall solution size. The switching frequency of LM3488 can be adjusted to any value from 100 kHz to 1 MHz by using a single external resistor or by synchronizing it to an external clock. Current mode control provides superior bandwidth and transient response, besides cycle-by-cycle current limiting. Output current can be programmed with a single external resistor.

The LM3488 has built-in features such as thermal shutdown, short-circuit protection, and overvoltage protection. Power-saving shutdown mode reduces the total supply current to 5  $\mu$ A and allows power supply sequencing. Internal soft-start limits the inrush current at start-up.

## Key Features

Automotive Grade Product, AEC-Q100 Qualified

8-Lead VSSOP Package

Internal Push-Pull Driver With 1-A Peak Current Capability

Current Limit and Thermal Shutdown

Frequency Compensation Optimized With a Capacitor and a Resistor

Internal Soft-Start

Current Mode Operation

Undervoltage Lockout With Hysteresis

Key Specifications:

Wide Supply Voltage Range of 2.97 V to 40 V

100-kHz to 1-MHz Adjustable and Synchronizable Clock Frequency

±1.5% (Overtemperature) Internal Reference

5- $\mu$ A Shutdown Current (Overtemperature)

Create a Custom Design Using the LM3488 with the WEBENCH Power Designer



## Recommended For You

### LM2637M

Texas Instruments, Inc

SOP24

### LM5116MH

Texas Instruments, Inc

TSSOP20

### LM234Z-3

Texas Instruments, Inc

TO-92

**LM27761DSGR**

Texas Instruments, Inc  
WS0N8

**LM74700QDBVRQ1**

Texas Instruments, Inc  
SOT23-6

**LM2991S**

Texas Instruments, Inc  
TO-263

**LM74800QDRRRQ1**

Texas Instruments, Inc  
WS0N-12

**LMR14030SDDAR**

Texas Instruments, Inc  
SOP8

**LM2940CT-12**

Texas Instruments, Inc  
TO-220

**LM536035QPWPTQ1**

Texas Instruments, Inc  
HTSSOP-16

**LM5575MH**

Texas Instruments, Inc  
TSSOP16

**LM536013QDSXTQ1**

Texas Instruments, Inc  
WS0N-10

**LM5160QPWPRQ1**

Texas Instruments, Inc  
HTSSOP14

**LM5576MH**

Texas Instruments, Inc  
TSSOP20

**LMQ61460AFSQRJRRQ1**

Texas Instruments, Inc  
VQFN-14