

## Sensor and Detector Interface 40V 16-Pin PDIP Tube

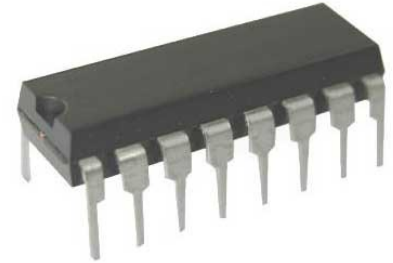
**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** DIP16

**Product Type:** Drivers

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active



Images are for reference only

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### General Description

The LM3481 device is a versatile Low-Side N-FET high-performance controller for switching regulators. The device is suitable for use in topologies requiring a low-side FET, such as boost, flyback, SEPIC, and so on. The LM3481 device can be operated at extremely high switching frequencies to reduce the overall solution size. The switching frequency of the LM3481 device can be adjusted to any value between 100kHz and 1MHz by using a single external resistor or by synchronizing it to an external clock. Current mode control provides superior bandwidth and transient response in addition to cycle-by-cycle current limiting. Current limit can be programmed with a single external resistor.

The LM3481 device has built-in protection 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

LM3481QMM are Automotive-Grade Products  
That are AEC-Q100 Grade 1 Qualified (–40°C to  
+125°C Operating Junction Temperature)

10-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 Softstart

Current Mode Operation

Adjustable Undervoltage Lockout With Hysteresis

Pulse Skipping at Light Loads

Key Specifications

Wide Supply Voltage Range of 2.97 V to 48 V

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

±1.5% (Over Temperature) Internal  
Reference

10-μA Shutdown Current (Over Temperature)

## Recommended For You

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### **XTR305IRGWR**

Texas Instruments, Inc

QFN20

### **XTR101AP**

Texas Instruments, Inc

DIP

### **XTR110AG**

Texas Instruments, Inc

DIP

### **XTR300AIRGWR**

Texas Instruments, Inc

VQFN20

### **XTR117AIDRBT**

Texas Instruments, Inc

VDFN-8

### **XTR105U**

Texas Instruments, Inc

SOP14

### **XTR106P**

Texas Instruments, Inc

DIP14

### **XTR106PA**

Texas Instruments, Inc

DIP-14

### **XTR111AIDRCT**

Texas Instruments, Inc

VSON10

**XTR115UA**

Texas Instruments, Inc  
SOP8

**XTR105P**

Texas Instruments, Inc  
DIP

**XTR112UA**

Texas Instruments, Inc  
SOP14

**XTR105UA**

Texas Instruments, Inc  
SOP14

**XTR101AU**

Texas Instruments, Inc  
SOIC16

**XTR101AG**

Texas Instruments, Inc  
DIP14