

## Current Mode PWM Controller 5V 1000kHz Automotive 8-Pin PDIP Tube



Images are for reference only

[Inquiry](#)

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

**Package/Case:** DIP8

**Product Type:** Power Management ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The UCCx80x family of high-speed, low-power integrated circuits contain all of the control and drive components required for off-line and DC-to-DC fixed frequency current-mode switching mode power supplies with minimal parts count.

These devices have the same pin configuration as the UCx84x family, and also offer the added features of internal full-cycle soft start and internal leading-edge blanking of the current-sense input.

The UCCx80x family offers a variety of package options, temperature range options, choice of maximum duty cycle, and choice of critical voltage levels.

Lower reference parts such as the UCC2803 and UCC2805 fit best into battery-operated systems, while the higher reference and higher UVLO hysteresis of the UCC2802 and UCC2804 make these ideal choices for use in off-line power supplies.

The UCC180x series is specified for operation from  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ , the UCC280x series is specified for operation from  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ , and the UCC380x series is specified for operation from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .

## Key Features

100- $\mu$ A Typical Starting Supply Current

500- $\mu$ A Typical Operating Supply Current

Operation up to 1 MHz

Internal Soft Start

Internal Fault Soft Start

Internal Leading-Edge Blanking of the Current Sense Signal

1-A Totem-Pole Output

70-ns Typical Response from Current-Sense to Gate Drive Output

1.5% Tolerance Voltage Reference

Same Pinout as UC3842 and UC3842A

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## Recommended For You

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### UCC28064ADR

Texas Instruments, Inc

SOP16

### UC3637N

Texas Instruments, Inc

DIP-18

### UCC27517DBVR

Texas Instruments, Inc

SOT23-5

### UCC2946TPWRQ1

Texas Instruments, Inc

TSSOP8

### UCC28730QDRQ1

Texas Instruments, Inc

SOP7

### UCC21222QDRQ1

Texas Instruments, Inc

SOP16

### UCD9090QRGZRQ1

Texas Instruments, Inc

VQFN-48

### UCC27531QDBVRQ1

Texas Instruments, Inc

SOT23-6

### UCC27511AQDBVRQ1

Texas Instruments, Inc

SOT23-6

**UCC2803QDRQ1**

Texas Instruments, Inc  
SOP8

**UCC28951QPWRQ1**

Texas Instruments, Inc  
TSSOP24

**UCC21320QDWKRQ1**

Texas Instruments, Inc  
SOIC-14

**UCC27322QDGNRQ1**

Texas Instruments, Inc  
HVSSOP-8

**UCC28950QPWRQ1**

Texas Instruments, Inc  
TSSOP24

**UCC2808AQDR-2Q1**

Texas Instruments, Inc  
SOP8