

Processor Supervisor 1.235V 1 Active Low/Push-Pull 8-Pin SOIC Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The UCCx946 is designed to provide accurate microprocessor supervision, including reset and watchdog functions. During power up, the device asserts a reset signal RES with VDD as low as 1 V. The reset signal remains asserted until the VDD voltage rises and remains above the reset threshold for the reset period. Both reset threshold and reset period are programmable by the user.

The UCCx946 is also resistant to glitches on the VDD line. Once RES has been deasserted, any drops below the threshold voltage need to be of certain time duration and voltage magnitude to generate a reset signal. These values are shown in Figure 1. An I/O line of the microprocessor may be tied to the watchdog input (WDI) for watchdog functions. If the I/O line is not toggled within a set watchdog period, programmable by the user, WDO is asserted. The watchdog function is disabled during reset conditions.

The UCCx946 is available in 8-pin SOIC(D), 8-pin PDIP (N) and 8-pin TSSOP(PW) packages to optimize board space.

Key Features

Fully Programmable Reset Threshold

Fully Programmable Reset Period

Fully Programmable Watchdog Period

2% Accurate Reset Threshold

Input Voltage Down to 2 V

Input 18- μ A Maximum Input Current

Reset Valid Down to 1 V

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Recommended For You

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