

Ucc25600 8 Pin High Performance Resonant Mode Controller

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[UCC25600 data sheet, product information and support | TI.com](#)

The UCC25600 high performance, resonant mode 1 • Variable Switching Frequency Control controller is designed for dc-to-dc applications using • Programmable Minimum Switching Frequency resonant topologies, especially the LLC half-bridge With 4% Accuracy (3% Accuracy at Temperature resonant converter.

[UCC25600-8-Pin-High-Performance-Resonant-Mode-Controller](#)

The UCC25600 high performance resonant mode controller is designed for dc-to-dc applications utilizing resonant topologies, especially the LLC half bridge resonant converter. This highly integrated controller implements frequency modulation control and complete system functions in only an 8-pin package.

[UCC25600 datasheet - 8-Pin-High-Performance-Resonant-Mode](#)

UCC25600 IC is an 8-pin Resonant mode controller having high performance and high efficiency. Boost converters having high voltages and operating under high switching frequency have two serious drawbacks which are core and switching losses. To overcome these losses, converters were designed for controlling the duty cycle and frequency.

[UCC25600-High-Performance-Resonant-Mode-Controller](#)

The UCC25600 is an 8-pin high performance, resonant mode controller specially designed for dc-to-dc applications using resonant topologies, especially the LLC half-bridge resonant converter. This IC provides complete system protection functions including overcurrent, UVLO, bias supply OVP, and over-temperature protection.

[UCC25600-Resonant-Mode-Controller-IC-Datasheet-Pinout](#)

8-Pin High-Performance Resonant Mode Controller • Variable Switching Frequency Control • Programmable Minimum Switching Frequency The UCC25600 high performance resonant mode With 4% Accuracy (3% accuracy at controller is designed for dc-to-dc applications temperature range: -20 °C to 105 °C) utilizing resonant topologies, especially the LLC half

[8-Pin-High-Performance-Resonant-Mode-Controller](#)

8-Pin High-Performance Resonant Mode Controller ... The UCC25600 high performance resonant mode. controller. is. designed. for. dc-to-dc. applications. With 4% Accuracy (3% accuracy at. utilizing resonant topologies, especially the LLC half. temperature range: -20°C to 105°C) bridge resonant converter. This highly integrated

[UCC25600-datasheet\(1/22-Page\)-TI-|8-Pin-High-Performance](#)

The UCC25600 high performance resonant mode controller is designed for dc-to-dc applications utilizing resonant topologies, especially the LLC half bridge resonant converter. This highly integrated controller implements frequency modulation control and complete system functions in only an 8-pin package.

[UCC25600B004-datasheet-8-Pin-High-Performance-Resonant](#)

8-Pin High-Performance Resonant Mode Controller • Variable Switching Frequency Control • Programmable Minimum Switching Frequency The UCC25600 high performance resonant mode With 4% Accuracy (3% accuracy at controller is designed for dc-to-dc applications temperature range: -20°C to 105°C) utilizing resonant topologies, especially the LLC half

[8-Pin-High-Performance-Resonant-Mode-Controller-\(Rev.-A](#)

control and complete system functions in only an 8-pin package. Ucc25600 8 Pin High Performance The UCC25600 high performance, resonant mode controller is designed for dc-to-dc applications using resonant topologies, especially the LLC half-bridge resonant converter. This highly integrated controller implements frequency modulation

[Ucc25600-8-Pin-High-Performance-Resonant-Mode-Controller](#)

8-Pin High-Performance Resonant Mode Controller, UCC25600 datasheet, UCC25600 circuit, UCC25600 data sheet : TI, alldatasheet, datasheet, Datasheet search site for Electronic Components and Semiconductors, integrated circuits, diodes, triacs, and other semiconductors.

[UCC25600-Datasheet\(PDF\)-Texas-Instruments](#)

UCC25600 Evaluation Modules. UCC25600EVM-644 and UCC25600EVM Evaluation Modules using the UCC25600 8-Pin High-Performance Resonant Mode Controller. Texas Instruments. The Texas Instruments UCC25600EVM-644 is a 600W isolated PFC AVR power supply evaluation module (EVM).

[UCC25600-Evaluation-Modules-Texas-Instruments-DC-DC](#)

UCC25600: Description 8-Pin High-Performance Resonant Mode Controller: File Size 588.67 Kbytes : Html View 1 2 3 4 5 6 7 8 9 More: Maker: TI [Texas Instruments] Homepage: <http://www.ti.com> Logo

[UCC25600-pdf,UCC25600-description,UCC25600-datasheets](#)

Electronic Manufacturer: Part no: Datasheet: Electronics Description: Texas Instruments: UCC25600 [Old version datasheet] 8-Pin High-Performance Resonant Mode Controller UCC25600 [Old version datasheet] 8-Pin High-Performance Resonant Mode Controller UCC25600

[UCC25600-Datasheet,-PDF-Alldatasheet](#)

• Variable Switching Frequency ControlDESCRIPTION • Programmable Minimum Switching Frequency The UCC25600 high performance resonant mode With 4% Accuracy (3% accuracy at controller is designed for dc-to-dc applications temperature range: -20°C to 105°C) utilizing resonant topologies, especially the LLC half bridge resonant converter.

[SEPTEMBER-2008-REVISION-JULY-2011-8-PinHigh](#)

The UCP1397 is a high performance Controller that can be utilized in half bridge Resonant topologies such as series Resonant, parallel Resonant and LLC Resonant converters. It integrates 600 V gate drivers, simplifying layout and reducing external component count. With its unique architecture, including a 500 kHz Voltage Controlled Oscillator whose control Mode permits flexibility when an ORing ...

[8-PIN-HIGH-PERFORMANCE-RESONANT-MODE-CONTROLLER-datasheet](#)

The time used to charge SS pin from 1.2 V to 4 V is defined as soft-start time and can be calculated as: To ensure reliable operation, the gate drivers restart with GD2 turning high.

[UCC25600-datasheet\(15/22-Page\)-TI-|8-Pin-High](#)

The UCC25600 high performance resonant mode controller is designed for dc-to-dc applications utilizing resonant topologies, especially the LLC half bridge resonant converter. This highly integrated controller implements frequency modulation control and complete system functions in only an 8-pin package.