Power Supply Control

PWM Controllers

2 Ultra-high-speed, 8-pin voltage mode PWM controller with fast overcurrent protection
Next-generation, current-mode PWM controllers offer lowest power and improved efficiency

3 Current mode push-pull PWM controller with programmable slope compensation
Zero voltage transition PWM outperforms all others in high-efficiency, high-power switching

MOSFET Drivers

4 MOSFET driver delivers 2% to 4% efficiency gain for your synchronous buck converters
Single 9-A high speed low-side driver reduces space and design complexity

5 Dual MOSFET gate driver ICs provide higher current and enhanced noise immunity

Power Supply Support

5 High-performance load share controller provides increased functionality to parallel power supplies

Power Factor Correction

6 Advanced PFC/PWM combination controllers
Low-to-medium power transition mode PFC controller for IEC1000-3-2 compliance applications

DC/DC Controllers

7 Low-input voltage mode synchronous buck controller
Wide-input voltage synchronous buck controller

Resources

8 Selection Guides
Ultra-high-speed, 8-pin voltage mode PWM controller with fast overcurrent protection

### UCC35705 and UCC35706

Get samples, datasheets and app reports at: [www.ti.com/sc/device/partnumber](http://www.ti.com/sc/device/partnumber)
Replace `partnumber` in URL with UCC35705 or UCC35706

- High-speed, 4-MHz oscillator allows for smaller magnetics for high density and lower cost converters
- Integrated oscillator with voltage feedforward circuitry
- 25-ns current limit delay provides fast protection from overcurrent faults
- Low start-up current: 30 µA
- Packaging: 8-pin package for simplicity and reduced size (SOIC, MSOP and PDIP)
- Suggested resale price starts at $1.00 each in quantities of 1,000

### UCC35705 Typical Application

- Voltage Feed-Forward
- Voltage Mode Control
- Programmable DC Clamp or Maximum Duty Cycle
- High Frequency Oscillator

**Applications include:**
- High frequency, isolated forward and flyback converters in the 25-W to 200-W range
- Any isolated DC/DC and off-line converters with wide input voltage range
- Board level point-of-load DC/DC modules

Next-generation, current-mode PWM controllers offer lowest power and improved efficiency

### UCC38C4x

Get samples, datasheets and app reports at: [www.ti.com/sc/device/partnumber](http://www.ti.com/sc/device/partnumber)
Replace `partnumber` in URL with UCC38C40, UCC38C41, UCC38C42, UCC38C43, UCC38C44 or UCC38C45

- Fastest overcurrent protection: 35-ns delay
- Low, 50-µA start-up current
- Low operating current: 2.3 mA at 50 kHz
- ±1-A peak output current
- Rail-to-rail output swings with 25-ns rise and 20-ns fall times
- ±1% initial trimmed 2.5-V error amplifier reference
- Trimmable oscillator discharge current
- Packaging: Available in 8-pin DIP, 8-pin SOIC and 8-lead MSOP which minimizes space
- Suggested resale price starts at $0.99 each in quantities of 1,000

### UCC38C42 Block Diagram

**Applications include:**
- Merchant and OEM power supply applications
- Telecom and datacom modular and brick applications
Current mode push-pull with programmable slope compensation

**UCC38083/4/5/6**

Get samples, datasheets and app reports at: www.ti.com/sc/device/partnumber
Replace partnumber in URL with UCC38083, UCC38084, UCC38085 or UCC38086

- Programmable slope compensation
- Internal soft-start (UCC38083 and UCC38084)
- Cycle by cycle current limiting
- Low start-up current: 120 µA and 1.5 mA typical run current
- Single external component oscillator programmable from 50-kHz to 1-MHz
- Current sense discharge transistor for good noise immunity
- Flexibility with two UVLO levels – UCC38084 and UCC38086 have minimum operating voltage of 4.1 V, making them perfect for 5-V systems
- Packaging: Available in 8-pin SOIC, 8-pin DIP, and 8-pin TSSOP
- Suggested resale price starts at $1.20 each in quantities of 1,000

**UCC38083/4/5/6 Typical Application**

Zero voltage transition PWM outperforms all others in high-efficiency, high-power switching

**UCC3895**

Get samples, datasheets, app reports and EVMs at: www.ti.com/sc/device/UCC3895

- Programmable output turn-on delay
- Adaptive delay set
- Bi-directional oscillator synchronization
- Voltage mode, current mode, or average current mode control
- Programmable soft start/soft stop and chip disable
- Duty cycle control: 0% to 100%
- Error amplifier: 7 MHz
- Operation to 1 MHz
- Low current consumption: 5 mA typ. at 500 kHz
- Low start-up current: 150 µA typ.
- Single external component oscillator programmable from 50-kHz to 1-MHz
- Current sense discharge transistor for good noise immunity
- Flexibility with two UVLO levels – UCC38084 and UCC38086 have minimum operating voltage of 4.1 V, making them perfect for 5-V systems
- Packaging: Available in 20-pin wide-body SOIC, 20-pin DIP, 20-pin PLCC or 20-pin TSSOP
- Suggested resale price starts at $4.90 each in quantities of 1,000

**UCC3895 Typical Application**

Applications include:

- High-power (>400 watts) bus power supplies where density and efficiency are important
MOSFET Drivers

MOSFET driver delivers 2% to 4% efficiency gain for your synchronous buck converters

**UCC27221 and UCC27222**

Get samples, datasheets, app reports and EVMs at:

www.ti.com/sc/device/partnumber

Replace partnumber in URL with UCC27221 or UCC27222

- Predictive Gate Drive™ maximizes efficiency by minimizing body diode conduction and reverse recovery losses
- Transparent synchronous buck gate driver operation from the single ended PWM input signal
- 12-V or 5-V input operation or 3.3-V input with availability of higher bias voltage
- ±3 A TrueDrive™ peak gate drive current at MOSFET Miller thresholds
- Automatically adjusts for changing operation conditions
- Inverting PWM input option (UCC27221)
- Extended operating temperature range of –40° C to +105° C
- Packaging: PowerPAD™ TSSOP-14 package for superior thermal dissipation
- Suggested resale price starts at $1.25 each in quantities of 1,000

**UCC27222 Typical Application**

Applications include:
- Non-isolated, high-frequency, low-output voltage DC to DC converters
- High-current, point of load converters in distributed power systems
- CPU power, general computer, telecom, datacomm and merchant power applications

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Single 9-A high speed low-side driver reduces space and design complexity

**UCC37321 and UCC37322**

Get samples, datasheets and app reports at:

www.ti.com/sc/device/partnumber

Replace partnumber in URL with UCC37321 or UCC37322

- High peak current drive capability of ±9 A at the Miller Plateau region using TrueDrive™ technology
- Efficient constant current sourcing using a unique bipolar and CMOS output stage
- Industry-standard pin-out with high performance with addition of ENABLE function
- TTL/CMOS compatible inputs independent of supply voltage
- 15-ns typical rise and 19-ns typical fall times with 10-nF load
- Typical propagation delay times of 25 ns with input falling, 35 ns with input rising
- Packaging: Available in 8-pin MSOP PowerPAD™, 8-pin DIP, and 8-pin SOIC
- Suggested resale price starts at $0.99 each in quantities of 1,000

**UCC37321/2 Block Diagram**

Applications include:
- Switch mode power supplies
- DC/DC converters
- Motor controllers
- Class D switching amplifiers
- Line drivers
- Pulse transformer drivers
MOSFET Drivers

Dual MOSFET gate driver ICs provide higher current and enhanced noise immunity

**UCC37323/4/5**

- ±4 A TrueDrive™ peak gate drive current at MOSFET Miller Plateau
- Industry standard 8-pin pin-out
- 20-ns rise and 15 ns fall times into 1.8-nF load
- TTL/CMOS compatible inputs
- Thermally enhanced MSOP PowerPAD™ package
- Unique bipolar and CMOS output stage for efficient constant current sourcing
- Propagation delay times of 30 ns
- Packaging: Available in 8-pin MSOP, 8-pin SOIC, 8-pin DIP
- Suggested resale price starts at $0.99 each in quantities of 1,000

**UCC37324 Typical Application**

Applications include:
- Switch mode power supplies
- DC/DC converters
- Motor controllers
- Class D switching amplifiers
- Line drivers
- Pulse transformer drivers

Power Supply Support

High-performance load share controller provides increased functionality to parallel power supplies

**UCC39002**

- High accuracy, better than 1% current share error at full load
- High side or low side (GND reference) current-sense capability
- Ultra-low offset current sense amplifier using post package trimming
- Single wire load share bus
- Full scale adjustability
- Packaging: Available in 8-pin SOIC, 8-pin DIP and 8-pin MSOP
- Suggested resale price starts at $0.89 each in quantities of 1,000

**UCC39002 Typical Application**

Applications include:
- Parallelable DC/DC modules
- Server, workstation and telecom systems
- High reliability systems
- N+1 redundant power systems
- High-current applications where off-the-shelf power supplies need to be paralleled
Advanced PFC/PWM combination controllers

**UCC2851x Family**

Get samples, datasheets, and app reports at:
www.ti.com/sc/device/partnumber
Replace partnumber in URL with UCC28510, UCC28511, UCC28512, UCC28513, UCC28514, UCC28515, UCC28516 or UCC28517

- Combines PFC and PWM power stages in one chip
- Trailing edge/leading edge modulation minimizes ripple current in boost capacitor
- 3-A sink/2-A source gate drives provide efficient MOSFET switching
- Multiple UVLO options optimize start-up and turn-off behaviors for differing biasing schemes and load transient requirements

**PFC features include**
- Transconductance amplifier, which enhances transient response
- Improved power factor and THD through improved multiplier

**PWM features include**
- Programmable max duty cycle up to 90% protects downstream power stage
- 1x:2x PFC:PWM frequency options allow smaller PWM components while minimizing losses in PFC

- Packaging: Available in 20-pin SOIC and 20-pin DIP
- Suggested resale price starts at $1.69 each in quantities of 1,000

**UCC2851x Typical Application**

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Low-to-medium power transition mode PFC controller for IEC1000-3-2 compliance applications

**UCC38050**

Get samples, datasheets, and app reports at:
www.ti.com/sc/device/UCC38050

- Boundry conduction mode controller for low cost PFC
- Slew rate comparator improves transient response time
- Zero power detect prevents OVP during light load conditions
- ± 750-mA peak gate drive current improves MOSFET switching efficiency
- Overvoltage protection, open-feedback protection and enable circuits minimize external components and lower implementation costs
- Packaging: Available in 8-pin SOIC and 8-pin DIP
- Suggested resale price starts at $0.65 each in quantities of 1,000

**UCC38050 Typical Application**

**Applications include:**
- Switch-mode power supplies for desktops, monitors, and set top boxes
- AC adapter front-end power supplies
- Electronic ballasts

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**Applications include:**
- Desktop and server computer power converters
- Distribution power system front ends
Low-input (2.25 V to 5.5 V) highly efficient voltage mode synchronous buck controller

**TPS40000/1/2/3**

Get samples, datasheets, EVMs, app reports and software tools at: [www.ti.com/sc/device/partnumber](http://www.ti.com/sc/device/partnumber)
Replace partnumber in URL with TPS40000, TPS40001, TPS40002 or TPS40003

- Operating input voltage: 2.25 V to 5.5 V
- Output voltage as low as 0.7 V
- 1% internal 0.7-V reference
- Predictive Gate Drive™ technology N-channel MOSFET drivers for higher efficiency
- Externally adjustable soft-start and overcurrent limit
- Fixed-frequency, 300-kHz or 600-kHz, voltage-mode control
- Source-only current or source/sink current
- Package: 10-lead MSOP PowerPAD™ for higher performance
- Suggested resale price starts at $0.99 each in quantities of 1,000

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS40000</td>
<td>300 kHz, source only</td>
</tr>
<tr>
<td>TPS40001</td>
<td>300 kHz, source/sink</td>
</tr>
<tr>
<td>TPS40002</td>
<td>600 kHz, source only</td>
</tr>
<tr>
<td>TPS40003</td>
<td>600 kHz, source/sink</td>
</tr>
</tbody>
</table>

**TPS4000x Typical Application**

Wide-input voltage (8 V to 40 V) synchronous buck controller

**TPS40050/51/53**

Get samples, datasheets, EVMs and app reports at: [www.ti.com/sc/device/partnumber](http://www.ti.com/sc/device/partnumber)
Replace partnumber in URL with TPS40050, TPS40051 or TPS40053

- Operating input voltage: 8 V to 40 V
- Input voltage feedforward compensation
- 1% internal 0.7-V reference
- Programmable fixed frequency 100-K to 1-MHz voltage mode controller
- Internal gate drive outputs for high side and synchronous N-channel MOSFETs
- Thermal shutdown
- Externally synchronizable
- Programmable high-side current limit
- Programmable closed-loop soft start
- Internal diode for the high-side gate drive boost voltage
- Package: 16-pin TSSOP PowerPAD™
- Suggested resale price starts at $1.32 each in quantities of 1,000

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS40050</td>
<td>Source only</td>
</tr>
<tr>
<td>TPS40051</td>
<td>Source/sink</td>
</tr>
<tr>
<td>TPS40053</td>
<td>Source/sink with V_OUT prebias</td>
</tr>
</tbody>
</table>

**TPS40050 Typical Application**

Applications include:
- Networking equipment
- Telecom equipment
- Base stations
- Servers
- DSP power
### Power Factor Correction Controllers (PFC)

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
<th>Control Method</th>
<th>Typical Power Level</th>
<th>Soft Switching</th>
<th>Max Frequency (kHz)</th>
<th>Start-up Current (mA)</th>
<th>UVLO Thresholds (V)</th>
<th>PWM Programmable Max Duty Cycle</th>
<th>PWM Frequency Option</th>
<th>OVP</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC3852</td>
<td>Transition Mode PFC Controller</td>
<td>CRM²</td>
<td>&lt;150 W</td>
<td></td>
<td>125</td>
<td>0.25</td>
<td>16.5/11.5</td>
<td>—</td>
<td>—</td>
<td>No</td>
<td>1.61</td>
</tr>
<tr>
<td>UC3853</td>
<td>8-Pin PFC Controller</td>
<td>ACM¹</td>
<td>75 W to 300 W</td>
<td>—</td>
<td>200</td>
<td>1.5</td>
<td>16/10</td>
<td>—</td>
<td>—</td>
<td>No</td>
<td>0.99</td>
</tr>
<tr>
<td>UC3854</td>
<td>PFC Controller</td>
<td>ACM¹</td>
<td>200 W to 2 kW+</td>
<td>—</td>
<td>200</td>
<td>0.3</td>
<td>16/10 (74A)</td>
<td>10.5/10 (54B)</td>
<td>—</td>
<td>No</td>
<td>0.99</td>
</tr>
<tr>
<td>UC3854A/B</td>
<td>Improved PFC Controller</td>
<td>ACM¹</td>
<td>200 W to 2 kW+</td>
<td>—</td>
<td>200</td>
<td>0.3</td>
<td>16/10 (74A)</td>
<td>10.5/10 (54B)</td>
<td>—</td>
<td>No</td>
<td>0.99</td>
</tr>
<tr>
<td>UC3855A/B</td>
<td>High Performance Soft Switching PFC Controller</td>
<td>ACM¹</td>
<td>400 W to 2 kW+</td>
<td>—</td>
<td>400</td>
<td>0.15</td>
<td>16/10 (55A)</td>
<td>10.5/10 (55B)</td>
<td>—</td>
<td>Yes</td>
<td>5.25</td>
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<tr>
<td>UC38050</td>
<td>Transition Mode PFC Controller</td>
<td>CRM¹</td>
<td>50 W to 400 W</td>
<td>—</td>
<td>Variable</td>
<td>0.75</td>
<td>16/10</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
<td>0.65</td>
</tr>
<tr>
<td>UC3817/18</td>
<td>BiCMOS PFC Controller</td>
<td>ACM¹</td>
<td>75 W to 2 kW+</td>
<td>—</td>
<td>400</td>
<td>0.1</td>
<td>16/10 (3817)</td>
<td>10.5/10 (3818)</td>
<td>—</td>
<td>Yes</td>
<td>1.07</td>
</tr>
<tr>
<td>UC3819</td>
<td>Tracking Boost PFC Controller</td>
<td>ACM¹</td>
<td>75 W to 2 kW+</td>
<td>—</td>
<td>400</td>
<td>0.1</td>
<td>10.2/9.7</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
<td>1.07</td>
</tr>
<tr>
<td>UC385050/01/02/03</td>
<td>PFC+PWM Combo Controller</td>
<td>ACM¹</td>
<td>75 W to 1 kW+</td>
<td>—</td>
<td>400</td>
<td>0.1</td>
<td>16/10 (500, 502)</td>
<td>No</td>
<td>1x</td>
<td>Yes</td>
<td>1.45</td>
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<tr>
<td>UC28510/11/12/13</td>
<td>Advanced PFC+PWM Combo Controller</td>
<td>ACM¹</td>
<td>75 W to 1 kW+</td>
<td>—</td>
<td>600</td>
<td>0.1</td>
<td>16.6/9.3 (510, 512)</td>
<td>10.2/9.7 (511, 513)</td>
<td>Yes; Up to 90%</td>
<td>1x</td>
<td>1.69</td>
</tr>
<tr>
<td>UC28514/15/16/17</td>
<td>Advanced PFC+PWM Combo Controller</td>
<td>ACM¹</td>
<td>75 W to 1 kW+</td>
<td>—</td>
<td>600</td>
<td>0.1</td>
<td>16.6/9.3 (514, 516)</td>
<td>10.2/9.7 (515, 517)</td>
<td>Yes; Up to 90%</td>
<td>2x</td>
<td>1.69</td>
</tr>
</tbody>
</table>

1. Suggested resale price in U.S. dollars in quantities of 1,000
2. Critical conduction Mode
3. Average Current Mode
4. Zero Voltage Transition

### MOSFET Drivers

<table>
<thead>
<tr>
<th>Device</th>
<th>No. of Outputs</th>
<th>Output Configuration</th>
<th>Output Architecture</th>
<th>IO Source/Sink (A)</th>
<th>Rise/Fall Time (ns)</th>
<th>VCC Range (V)</th>
<th>Prop Delay (ns)</th>
<th>Input Thresholds</th>
<th>Dead Time</th>
<th>Internal Regulator</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS2811</td>
<td>2</td>
<td>Inverting</td>
<td>TrueDrive™</td>
<td>2/0/2</td>
<td>25/25</td>
<td>8 to 40</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>Yes</td>
<td>0.83</td>
</tr>
<tr>
<td>TPS2812</td>
<td>2</td>
<td>Non-inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>25/25</td>
<td>8 to 40</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>Yes</td>
<td>0.83</td>
</tr>
<tr>
<td>TPS2813</td>
<td>2</td>
<td>One inverting, one non-inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>4 to 14</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>—</td>
<td>No</td>
<td>0.83</td>
</tr>
<tr>
<td>TPS2814</td>
<td>2</td>
<td>Dual 2-input AND, one inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>4 to 14</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>—</td>
<td>No</td>
<td>0.83</td>
</tr>
<tr>
<td>TPS2815</td>
<td>2</td>
<td>2-input NAND</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>4 to 14</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>—</td>
<td>No</td>
<td>0.83</td>
</tr>
<tr>
<td>TPS2816</td>
<td>1</td>
<td>Inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>25/25</td>
<td>8 to 40</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>Yes</td>
<td>0.58</td>
</tr>
<tr>
<td>TPS2817</td>
<td>1</td>
<td>Non-inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>25/25</td>
<td>8 to 40</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>Yes</td>
<td>0.58</td>
</tr>
<tr>
<td>TPS2818</td>
<td>1</td>
<td>Inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>25/25</td>
<td>8 to 40</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>Yes</td>
<td>0.58</td>
</tr>
<tr>
<td>TPS2819</td>
<td>1</td>
<td>Non-inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>25/25</td>
<td>8 to 40</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>Yes</td>
<td>0.58</td>
</tr>
<tr>
<td>TPS2822</td>
<td>1</td>
<td>Inverting</td>
<td>TrueDrive</td>
<td>2/0/2</td>
<td>25/25</td>
<td>4 to 14</td>
<td>40</td>
<td>CMOS</td>
<td>No</td>
<td>Yes</td>
<td>0.58</td>
</tr>
<tr>
<td>UC3853</td>
<td>3</td>
<td>PFC Controller</td>
<td>ACM</td>
<td>8-Pin PFC Controller</td>
<td>75 W to 300 W</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
<td>Yes</td>
</tr>
<tr>
<td>UC3854</td>
<td>3</td>
<td>PFC Controller</td>
<td>ACM</td>
<td>8-Pin PFC Controller</td>
<td>200 W to 2 kW+</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
<td>Yes</td>
</tr>
<tr>
<td>UC3854A/B</td>
<td>3</td>
<td>Improved PFC Controller</td>
<td>ACM</td>
<td>Improved PFC Controller</td>
<td>200 W to 2 kW+</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
<td>Yes</td>
</tr>
<tr>
<td>UC3855A/B</td>
<td>3</td>
<td>High Performance Soft Switching PFC Controller</td>
<td>ACM</td>
<td>High Performance Soft Switching PFC Controller</td>
<td>400 W to 2 kW+</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
<td>Yes</td>
</tr>
<tr>
<td>UC38050</td>
<td>3</td>
<td>Transition Mode PFC Controller</td>
<td>CRM</td>
<td>Transition Mode PFC Controller</td>
<td>50 W to 400 W</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
<td>Yes</td>
</tr>
<tr>
<td>UC3817/18</td>
<td>3</td>
<td>BiCMOS PFC Controller</td>
<td>ACM</td>
<td>BiCMOS PFC Controller</td>
<td>75 W to 2 kW+</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
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<td>UC3819</td>
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<td>Tracking Boost PFC Controller</td>
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<td>Tracking Boost PFC Controller</td>
<td>75 W to 2 kW+</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
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<td>UC385050/01/02/03</td>
<td>3</td>
<td>PFC+PWM Combo Controller</td>
<td>ACM</td>
<td>PFC+PWM Combo Controller</td>
<td>75 W to 1 kW+</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
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<td>UC28510/11/12/13</td>
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<td>Advanced PFC+PWM Combo Controller</td>
<td>ACM</td>
<td>Advanced PFC+PWM Combo Controller</td>
<td>75 W to 1 kW+</td>
<td>3.3/3.3</td>
<td>81/103</td>
<td>3.7 to 20</td>
<td>60</td>
<td>TTL</td>
<td>Yes</td>
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1. TSD—Thermal Shutdown; OVP—Over-Voltage Protection; UVLO—Under-Voltage Lockout.; OCP—Over-Current Protection; OVPC—Over-Voltage Protection Current
2. Suggested resale price in U.S. dollars in quantities of 1,000 New devices indicated in red
### PWM Power Supply Controllers (single output topologies)

<table>
<thead>
<tr>
<th>Device</th>
<th>Typical Power Level (W)</th>
<th>Max Practical Frequency</th>
<th>Start-Up Current</th>
<th>Operating Current</th>
<th>Supply Voltage (V)</th>
<th>UVLO: On (V)</th>
<th>UVLO: Off (V)</th>
<th>Vref (V)</th>
<th>Vref Tol. (%)</th>
<th>Max Duty Cycle (%)</th>
<th>Soft Start</th>
<th>E/A</th>
<th>Shutdown</th>
<th>Output Voltage Feed-forward</th>
<th>Internal Drive (Sink/Source) (A)</th>
<th>Leading Edge Blanking</th>
<th>Available Packages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCC35701</td>
<td>25 to 250</td>
<td>700 kHz</td>
<td>130 µA</td>
<td>750 µA</td>
<td>9.0 to 15</td>
<td>13.0</td>
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<td>5</td>
<td>1.5</td>
<td>Prog. VS Clamp</td>
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<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>UCC35702</td>
<td>25 to 250</td>
<td>700 kHz</td>
<td>130 µA</td>
<td>750 µA</td>
<td>8.8 to 15</td>
<td>9.6</td>
<td>8.8</td>
<td>5</td>
<td>1.5</td>
<td>Prog. VS Clamp</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>No</td>
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<td>UCC35705</td>
<td>25 to 250</td>
<td>4 MHz</td>
<td>50 µA</td>
<td>2.5 mA</td>
<td>8.2 to 15</td>
<td>8.8</td>
<td>8.2</td>
<td>—</td>
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<td>2.5 mA</td>
<td>8.0 to 15</td>
<td>12</td>
<td>8</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>93</td>
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<td>UCC3581</td>
<td>5 to 75</td>
<td>100 kHz</td>
<td>15 µA</td>
<td>300 µA</td>
<td>8.8 to 15</td>
<td>7.3</td>
<td>6.8</td>
<td>4</td>
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<td>Prog.</td>
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<td>Yes</td>
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<td>No</td>
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<td>UCC3960</td>
<td>25 to 250</td>
<td>400 kHz</td>
<td>150 µA</td>
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<td>8.0 to 19</td>
<td>10</td>
<td>8</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>72</td>
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<td>UCC3961</td>
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<td>—</td>
<td>—</td>
<td>—</td>
<td>72</td>
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### Peak Current Mode Controllers

<table>
<thead>
<tr>
<th>Device</th>
<th>Typical Power Level (W)</th>
<th>Max Practical Frequency</th>
<th>Start-Up Current</th>
<th>Operating Current</th>
<th>Supply Voltage (V)</th>
<th>UVLO: On (V)</th>
<th>UVLO: Off (V)</th>
<th>Vref (V)</th>
<th>Vref Tol. (%)</th>
<th>Max Duty Cycle (%)</th>
<th>Soft Start</th>
<th>E/A</th>
<th>Shutdown</th>
<th>Output Voltage Feed-forward</th>
<th>Internal Drive (Sink/Source) (A)</th>
<th>Leading Edge Blanking</th>
<th>Available Packages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCC3800 thru UCC3805</td>
<td>10 to 200</td>
<td>1 MHz</td>
<td>100 µA</td>
<td>500 µA</td>
<td>7.2 to 15 (00)</td>
<td>9.4 to 15 (01)</td>
<td>12.5 to 15 (02, 04)</td>
<td>4.1 to 15 (03, 05)</td>
<td>7.2 (00)</td>
<td>9.4 (01)</td>
<td>12.5 (02, 04)</td>
<td>4.1 (03, 05)</td>
<td>6.9 (00)</td>
<td>7.4 (01)</td>
<td>8.3 (02, 04)</td>
<td>3.6 (03, 05)</td>
<td>5</td>
<td>1.5</td>
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<tr>
<td>UCC3807-1 thru UCC3807-2</td>
<td>10 to 200</td>
<td>1 MHz</td>
<td>100 µA</td>
<td>1.3 mA</td>
<td>6.9 to 15 (1-1)</td>
<td>8.3 to 15 (1-2)</td>
<td>12.5 to 15 (1-3)</td>
<td>4.1 to 15 (1-3)</td>
<td>7.2 (-1)</td>
<td>8.3 (-2)</td>
<td>12.5 (-3)</td>
<td>4.1 (-3)</td>
<td>6.9 (-1)</td>
<td>8.3 (-2)</td>
<td>12.5 (-3)</td>
<td>4.1 (-3)</td>
<td>2 V (Int)</td>
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<tr>
<td>UCC3809-1 thru UCC3809-2</td>
<td>10 to 200</td>
<td>1 MHz</td>
<td>50 µA</td>
<td>500 µA</td>
<td>8 to 19</td>
<td>10 (-1)</td>
<td>15 (-2)</td>
<td>8.0</td>
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<td>5.0</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>UCC3813-0 thru UCC3813-5</td>
<td>10 to 200</td>
<td>1 MHz</td>
<td>100 µA</td>
<td>500 µA</td>
<td>7.2 to 15 (1-1)</td>
<td>9.4 to 15 (1-1)</td>
<td>12.5 to 15 (1-2, -4)</td>
<td>4.1 to 15 (1-3, -5)</td>
<td>7.2 (00)</td>
<td>9.4 (01)</td>
<td>12.5 (02, 04)</td>
<td>4.1 (03, 05)</td>
<td>6.9 (00)</td>
<td>7.4 (01)</td>
<td>8.3 (02, 04)</td>
<td>3.6 (03, 05)</td>
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<td>2.0</td>
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<tr>
<td>UCC3842 thru UCC3845</td>
<td>30 to 350</td>
<td>500 kHz</td>
<td>0.5 mA</td>
<td>11 mA</td>
<td>10 to 30 (42, 44)</td>
<td>7.6 to 30 (43, 45)</td>
<td>16 (42, 43)</td>
<td>8.4 (43, 45)</td>
<td>10 (42, 44)</td>
<td>7.6 (42, 45)</td>
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<td>1.5</td>
<td>100 (42, 43)</td>
<td>50 (44, 45)</td>
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<td>Yes</td>
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<tr>
<td>UCC3842A thru UCC3845A</td>
<td>30 to 350</td>
<td>500 kHz</td>
<td>0.3 mA</td>
<td>11 mA</td>
<td>10 to 30 (43A, 44A)</td>
<td>7.6 to 30 (43A, 45A)</td>
<td>16 (43A, 43A)</td>
<td>8.4 (43A, 45A)</td>
<td>10 (42A, 44A)</td>
<td>7.6 (42A, 45A)</td>
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<td>1.5</td>
<td>100 (42, 43)</td>
<td>50 (44, 45)</td>
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<td>UCC38C40 thru UCC38C45</td>
<td>10 to 250</td>
<td>1 MHz</td>
<td>50 µA</td>
<td>2.3 mA</td>
<td>6.6 to 20 (40, 41)</td>
<td>9 to 20 (42, 44)</td>
<td>7.6 to 20 (43, 45)</td>
<td>6.6 (40, 41)</td>
<td>14.5 (42, 44)</td>
<td>8.4 (43, 45)</td>
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<td>2</td>
<td>100 (40, 42, 43)</td>
<td>50 (41, 44, 45)</td>
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<td>UCC38C40 thru UCC38C45</td>
<td>10 to 250</td>
<td>1 MHz</td>
<td>—</td>
<td>21</td>
<td>8.4 to 20</td>
<td>8.4</td>
<td>8</td>
<td>5</td>
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<td>Prog.</td>
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<td>Yes</td>
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<td>UCC3884</td>
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<td>8.9 to 15</td>
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<td>0.5/1</td>
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<td>DIL16, SOIC16, PLCC20</td>
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1 Suggested resale price in U.S. dollars in quantities of 1,000

New devices indicated in red
## PWM Power Supply Controllers (multiple output topologies)

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<tr>
<th>Device</th>
<th>Typical Power Level</th>
<th>Max Practical Frequency</th>
<th>Start-Up Current</th>
<th>Operating Current (mA)</th>
<th>Supply Voltage (V)</th>
<th>UVLO: On/Off (V)</th>
<th>Vref (V)</th>
<th>Vref Tol. (%)</th>
<th>Max Duty Cycle</th>
<th>Soft Start</th>
<th>E/A</th>
<th>Shutdown Pin</th>
<th>Voltage Feed-forward (Sink/Source) (A)</th>
<th>Sync. Pin</th>
<th>Available Packages</th>
<th>Price*</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC3823</td>
<td>50 to 750 W</td>
<td>1 MHz</td>
<td>1.1 mA</td>
<td>22</td>
<td>9 to 30</td>
<td>9.2/8.4</td>
<td>5.1</td>
<td>1.0</td>
<td>Prog. Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>1.5/1.5</td>
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<td>DIL16, SOIC16, PLCC20</td>
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<td>UC3823A/B</td>
<td>50 to 750 W</td>
<td>1 MHz</td>
<td>100 µA</td>
<td>28</td>
<td>9 to 22</td>
<td>16/10</td>
<td>9.2/8.4</td>
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<td>1.5 Prog. Yes</td>
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<td>1.5/1.5</td>
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<td>100 µA</td>
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<td>UC3846</td>
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<td>3.0</td>
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<td>150 µA</td>
<td>2</td>
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<td>11.3/8.3</td>
<td>5</td>
<td>20%</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>DIL16, SOIC16</td>
<td>1.72</td>
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| Voltage Mode Controllers
| SG2524/3524   | —                    | —                      | 8 to 40            | 5                     | 4                | 45%     | Yes           | Yes            | No         | No  | 0.1/0.1       | Yes                                   | Yes      | SOIC16, DIP16, SOP16 | 0.63    |
| TL494         | —                    | 300 kHz                 | 7.5                | 7 to 40                | 6.1/6             | 5                | 1        | 45%           | Yes            | Yes        | No  | No            | 0.2/0.2                               | Yes      | SOIC16, TSSOP16, DIP16, SOP16 | 0.26    |
| TL598         | —                    | 300 kHz                 | —                  | 15                     | 7 to 40           | 6.1/6             | 5        | 1            | 45%           | No         | No  | No            | 0.2/0.2                               | Yes      | SOIC16, DIP16 | 0.72    |
| UC3824A/B     | 500 kHz             | 1 MHz                   | 22                 | 9 to 30                | 9.2/8.4           | 5.1              | 1.0      | Prog. Yes     | Yes            | Yes        | No  | No            | 1.5/1.5                               | Yes      | DIL16, SOIC16, PLCC20 | 0.99    |
| UC3826A/B     | 500 kHz             | 1 MHz                   | 14                 | 8 to 35                | 7/7               | 5                | 2.0      | Prog. Yes     | Yes            | Yes        | No  | No            | 0.2/0.2                               | Yes      | DIL16, SOIC16, PLCC20 | 2.87    |
| UC3823        | 500 kHz             | 1 MHz                   | 28                 | 9 to 22                | 16/10             | 9.2/8.4           | 5.1      | 1.5           | Prog. Yes     | Yes            | No  | No            | 2/2                                   | Yes      | DIL16, SOIC16, PLCC20 | 4.65    |
| UC3823A/B     | 600 kHz             | 1 MHz                   | 22                 | 9 to 30                | 9.2/8.4           | 5.1              | 1.5      | Prog. Yes     | Yes            | Yes        | No  | No            | 2/2                                   | Yes      | DIL16, SOIC16, PLCC20 | 4.26    |
| UC3825        | 500kHz              | 1 MHz                   | 130 µA           | 20                     | 8.3 to 15         | 12.5/8.3         | 5      | 20%           | Yes            | No         | No  | 1.0/0.5       | No                                    | Yes      | DIL8, SOIC8, TSSOP8 | 1.20    |
| UC3825A/B     | 500kHz              | 1 MHz                   | 150 µA           | 2                      | 8.3 to 11         | 11.3/8.3         | 5      | 20%           | Yes            | Yes        | Yes | 1/1           | Yes                                   | Yes      | DIL16, SOIC16 | 1.72    |
| Soft Switching Controllers
| UC3875-8     | 200 W to 2 kW        | 1 MHz                  | 150 µA            | 15                   | 10.7/9.3         | 15/9             | 5       | 2.0           | Prog. Yes     | Yes            | No  | No            | 4/2.2                                 | Yes      | DIL20, SOIC20, PLCC20 | 4.60    |
| UC3879       | 200 W to 2 kW        | 500 kHz                 | 150 µA           | 27                   | 11 to 20          | 15/2/9           | 10/7/9   | 5        | 2.5           | Prog. Yes     | Yes            | No  | No            | 4/2/2.2                               | Yes      | DIL20, SOIC20, PLCC20 | 3.50    |
| UCC3850-1/2   | 500 W to 2 kW        | 100 µA                  | 1.5                | 7 to 15                | 15/8.5           | 5                | 1.0      | Prog. Yes     | Yes            | Yes        | Yes | 0.5/0.3       | No                                    | No       | DIL16, SOIC16, PLCC20 | 2.25    |
| UC3895       | 200 W to 2 kW        | 1 MHz                   | 150 µA           | 5                     | 11 to 17          | 11/9             | 5       | 3.0           | Yes            | Yes        | Yes | No            | 4/2/2.2                               | Yes      | DIL20, SOIC20, PLCC20 | 4.09    |

* Suggested resale price in U.S. dollars in quantities of 1,000

New devices indicated in red
Evaluation Modules

To order any of the following evaluation modules (EVMs), please call the order desk, 1-800-477-8924, ext. 5800, in North America. To order from other regions, please contact the TI Product Information Center (see listings on page 15) or local TI distributor.

- TPS2817 Power Supply Evaluation Module with TPS2817 MOSFET Driver $50
- UCC2722EVM 12-V to 1.8 V, 20-A High Efficiency Synchronous Buck Converter Using the UCC27222 $49
- UCC2722EVM-001 Synchronous Buck Converter Providing a Variable Output (available 3Q '03) Between 0.9 V and 1.8 V at 20 A from a 0.5 V Input $49
- UCC3850EVM UCC3850 Evaluation Module: 100W, Universal Line to 12V Regulated Output $49
- UCC3817EVM UCC3817EVM Evaluation Module: 385 V, 250 W PFC Boost Converter $49
- UCC3895EVM-001 Configuring The UCC3895 For Direct Control Driven Synchronous Re (Rev. A) $99
- UCC3890EVM 10-Watt Flyback Converter Utilizing the UCC3809 $49
- UCC3889EVM Off-Line Low-Voltage Power Supply Evaluation Module $49

Application Reports

To access any of the following application reports, type the URL www-s.ti.com/sc/techlit/litnumber and replace litnumber with the number in red.

- UCC27221/2 Predictive Gate Drive™ Boosts Synchronous DC/DC Power Converter Efficiency SLUA281
- UCC27221/2 UCC27221/2 Predictive Gate Drive™ Frequently Asked Questions SLUA280
- UCC27221/2 Predictive Gate Drive™ Frequently Asked Questions SLUA285
- UCC38050 MathCAD application design tool for use with the UCC38050 (Note: this is a compressed .zip file) SLVC018
- UCC38050 UCC38050 100-W Critical Conduction Power Factor Corrected (PFC) PreRegulator SLUU138
- UCC28517 Prototype Reference Design Module SLUU117
- UCC3819 UCC3819 250-W Power Factor Corrected (PFC) Boost Follower PreRegulator Design SLUA269
- UCC3817 Synchronizing a PFC Controller from a Downstream Converter’s Gate Drive SLUA245
- UCC3809 Comparing the UCC3842, UCC3802, and UCC3809 Primary Side PWM Controllers SLUA213
- UCC3802 Design Considerations for Transitioning from the UCC3842 to the New UCC3802 Family SLUA084
- UCC3806 UC3846, UC3856 and UCC3806 Push Pull PWM Current Mode Control ICs SLUA178
- UCC3806 Programming the UCC3806 Features SLUA183
- UCC3809 Programming the UCC3809 for 90% Maximum Duty Cycle Clamp SLUA251
- UCC3843A A Revolutionary Power Management Solution for Highly Efficient, Multiple Output Applications SLUA255
- UCC3842 The UCC3842 Family of High-Speed, BiCMOS Current Mode PWM Controllers SLUA257
- UCC38C44 UCC38C44 12-V Isolated Bias Supply SLUA244
- UCC3895 UCC3895 OUT3 OUTD Asymmetric Duty Cycle Operation SLUA275
- UCC38C42 UCC38C42 25-Watt Self-Resonant Reset Forward Converter SLUA256
- UCC2721 Low Voltage Feedback in PWM Applications SLUA286
- UCC3895 Control Driven Synchronous Rectifiers in Phase Shifted Full Bridge Converters SLUA287
- UCC35705 48-V to 3.3-V RCD Forward with UCC35705 Voltage-Mode Control and Self-Driven Synchronous Rectification SLUU141

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