

# Keep your car running with TI's automotive **Switch Mode Power Supplies (SMPS)**



TI's automotive SMPS devices are part of our large power management portfolio and are suitable for all kinds of automotive applications. This selection shows some of the Q1-qualified devices which range from DC/DC power supply controllers and converters to PWM controllers to LED applications.

This page is your resource to download datasheets and order samples. For the full list of TI's SMPS devices, click on the complete parametric table for more information and for other power management-related analog solutions.

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Device	Description	Sample	Datasheet
<b>Step-Down (Buck) Converter: View the complete portfolio parametric table</b>			
LM25011-Q1	6-42V Wide Vin, 2A Constant-On Time Non-Synchronous Buck Regulator with Adjustable Current Limit		
LM26001/3-Q1	1.5A/3A Switching Regulator with High Efficiency Sleep Mode		
LM26420-Q1	Dual 2.0A, High Frequency Synchronous Step-Down DC-DC Regulator		
LM2734-Q1	Thin SOT23 1A Load Step-Down DC-DC Regulator		
LM27341-Q1	1.5A - Wide Input Range Buck Regulator with Frequency Synchronization		
LM27342-Q1	2A - Wide Input Range Buck Regulator with Frequency Synchronization		
LM2830-Q1	High Frequency 1.0A Load - Step-Down DC-DC Regulator (Rev. D)		
LM34919B/C-Q1	4.5-50V Wide Vin, 600mA, 2.6MHz Ultra-Small Constant On-Time Non-Synchronous Buck Regulator		
LM5010A-Q1	6-75V Wide Vin, 1A Constant On-Time Non-Synchronous Buck Regulator		
LM5574/5/6-Q1	SIMPLE SWITCHER® 75V, 0.5A/1.5A/3A Step-Down Switching Regulator		
TL2575HV-05-Q1	1-A Simple Step-Down Switching Voltage Regulators		
TLV62065-Q1	3MHz 2A Step-Down Converter in 2x2 SON Package		
TPS54040-Q1	3.5V to 42V Input, 0.5 A Step-Down SWIFT™ Converter with Eco-mode™		
TPS54060-Q1	3.5V to 60V Input, 0.5A, 2.5MHz Step-Down SWIFT Converter with Eco-mode		
TPS54061-Q1	SWIFT 4.7V-60V, 200mA Synchronous Step-Down DC/DC Converter		
TPS5410-Q1	5.5V to 36V, 1A, 500kHz Step-Down SWIFT Converter		
TPS54110-Q1	Low Input Voltage 1.5A Step-Down Converter with Adjustable Output Voltage		
TPS54140-Q1	3.5V to 42V Input, 1.5 A Step-Down SWIFT Converter with Eco-mode		
TPS54160-Q1	3.5V to 60V, 1.5A Step-Down SWIFT Converter with Eco-mode		
TPS54162-Q1	1A, 60V Step-Down DC/DC Converter With Low Iq, Voltage Supervision and Reset		
TPS5420-Q1	5.5V to 36V Input 2-A Step-Down Converter		
TPS54225-Q1	4.5V to 18V Input, 2A Synchronous Step-Down D-CAP2™ Mode Converter		
TPS54233-Q1	3.5 to 28V Input, 2A, 300kHz Step-Down Converter with Eco-mode		
TPS54240-Q1	3.5V to 42V Input, 2.5A, 2.5MHz Step-Down SWIFT Converter with Eco-mode		
TPS54260-Q1	3.5V to 60V Input, 2.5A, 2.5MHz Step-Down SWIFT Converter with Eco-mode		
TPS54262-Q1	2A, 60V Step-Down DC/DC Converter With Low Iq, Voltage Supervision and Reset		

Device	Description	Sample	Datasheet
<b>Step-Down (Buck) Converter (cont.): View the complete portfolio parametric table</b>			
TPS5430-Q1	5.5V to 36V, 3-A Step-Down Converter		
TPS54310-Q1	3-V to 6-V Input 3-A Output Synchronous-Buck PWM Switcher		
TPS54312-Q1	3-V to 6-V Input 3-A Output Synchronous-Buck PWM Switcher		
TPS54316-Q1	3-V to 6-V Input 3-A Output Synchronous-Buck PWM Switcher		
TPS54325-Q1	4.5V to 18V Input, 3A Synchronous Step-Down D-CAP2 Mode Converter		
TPS54331-Q1	3A, 28V Input, 570 kHz Step-Down SWIFT Converter with Eco-mode		
TPS54340-Q1	SWIFT 4.5V-42V, 3.5A Step-Down DC/DC Converter		
TPS54360-Q1	SWIFT 4.5V-60V, 3.5A Step-Down DC/DC Converter		
TPS54361-Q1	SWIFT 4.5V-60V, 3.5A Step-Down DC/DC Converter w/ Power Good		
TPS54362-Q1	3A, 60V step down DC/DC converter with low Iq, voltage supervision and reset		
TPS54380-Q1	Low Input Voltage 3A Synchronous Buck Converter for Sequencing		
TPS54386-Q1	4.5V to 28V Input, Dual 3A Outputs, 600kHz Step-Down Converter with Internal Comp		
TPS54388-Q1	2.95V to 6V Input, 3A, 2MHz Synchronous Step Down SWIFT DCDC Converter		
TPS5450-Q1	5A, Wide Input Step Down SWIFT Converter		
TPS54540-Q1	SWIFT 4.5V-42V, 5A Step-Down DC/DC Converter		
TPS54560-Q1	SWIFT 4.5V-60V, 5A Step-Down DC/DC Converter		
TPS54610-Q1	3-V to 6-V Input, 6-A Output Synchronous Buck PWM Switcher		
TPS54612-Q1	3-V to 6-V Input, 6-A Output Synchronous Buck PWM Switcher		
TPS54614-Q1	3-V to 6-V Input, 6-A Output Synchronous Buck PWM Switcher		
TPS54615-Q1	3-V to 6-V Input, 6-A Output Synchronous Buck PWM Switcher		
TPS54616-Q1	3-V to 6-V Input, 6-A Output Synchronous Buck PWM Switcher		
TPS54618-Q1	SWIFT 2.95V-6V, 6A Synchronous Step-Down DC/DC Converter		
TPS57040-Q1	3.5V to 42V Input, 0.5 A Step Down SWIFT Converter with Eco-mode		
TPS57060-Q1	3.5V to 60V Input, 0.5A, 2.5MHz Step Down SWIFT Converter with Eco-mode		
TPS57112-Q1	2.95V to 6V Input, 2A, 2MHz Synchronous Step Down SWIFT DCDC Converter		
TPS57114-Q1	2.95V to 6V Input, 4A, 2MHz Synchronous Step Down SWIFT DCDC Converter		
TPS57140-Q1	3.5V to 42V Input, 1.5 A Step Down SWIFT Converter with Eco-mode		
TPS57160-Q1	3.5V to 60V, 1.5A Step Down SWIFT Converter with Eco-mode		
TPS62000-Q1	Adjustable, 600-mA, 95% Efficient Step-Down Converter		
TPS62004-Q1	High-Efficiency Step-Down Low Power DC-DC Converter		
TPS62005-Q1	High-Efficiency Step-Down Low Power DC-DC Converter		
TPS62007-Q1	High-Efficiency Step-Down Low Power DC-DC Converter		
TPS62110-Q1	Adjustable, 1.5-A, 17-V Vin Step-Down Converter in QFN-16		
TPS62152-Q1	3-17V 1A Step-Down Converter in 3x3 QFN package		
TPS622314-Q1	3MHz, 500mA Step-Down Converter in 1 x 1.5mm SON Package		
TPS62231-Q1	3MHz Ultra Small Step Down Converter in 1x1.5 SON Package		
TPS62242-Q1	2.25MHz 300mA Step-Down Converter in 2x2mm SON/TSOT23 Package		
TPS62260-Q1	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package		
TPS62261-Q1	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package		
TPS62262-Q1	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package		
TPS62263-Q1	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package		
TPS62290-Q1	2.25MHz 1A Step-Down Converter in 2x2mm SON Package		
TPS62293-Q1	2.25MHz 1A Step-Down Converter in 2x2mm SON Package		
TPS62590-Q1	2.25MHz, 1A Step-Down Converter in 2 x 2 SON Package		
TPS62650-Q1	800-mA, 6-MHz Synchronous Step-Down Converter		
<b>Step-Down (Buck) Controller: View the complete portfolio parametric table</b>			
LM25085/88-Q1	4.5-42V Wide Vin, Constant On-Time Non-Synchronous PFET Buck Controller		
LM25117-Q1	4.5-42V Wide Vin, Current Mode Synchronous Buck Controller with Tracking		
LM25119-Q1	4.5-42V Wide Vin, Current Mode Dual Synchronous Buck Controller		
LM3485/89-Q1	4.5-35V, Hysteretic Non-Synchronous PFET Buck Controller		
TPS40050-Q1	Wide-Input Synchronous Buck Controller		
TPS40051-Q1	Wide-Input Synchronous Buck Controller		
TPS40090-Q1	4 Channel Multiphase Buck DC/DC Controller		
TPS40170-Q1	4.5 V to 60 V Wide-Input Synchronous PWM Buck Controller		
TPS40200-Q1	Wide-Input-Range Non-Synchronous Voltage-Mode Controller		
TPS5120-Q1	Dual Output Two-Phase Synchronous Buck DC/DC Controller		
TPS51220A-Q1	Fixed-Frequency, 99% Duty Cycle Peak Current-Mode Notebook System Pwr Controller		
TPS5130-Q1	Triple Synchronous Buck Controller with LDO Controller		

Device	Description	Sample	Datasheet
<b>Step-Up (Boost) Converter: View the complete portfolio parametric table</b>			
LM27313-Q1	1.6 MHz Boost Converter With 30V Internal FET Switch in SOT-23		
LM2735	520kHz/1.6MHz - Space-Efficient Boost and SEPIC DC-DC Regulator		
LM5001-Q1	3.1-75V Wide Vin, 1A Current Mode Non-Synchronous Switch Mode Regulator		
TPS55332-Q1	3-A, 60-V Step Up DC/DC Converter		
TPS61029-Q1	Adjustable, 1.8-A Switch, 96% Efficient Boost Converter with Down-Mode, QFN-10		
TPS61071-Q1	Adjustable, 600-mA Switch, 90% Efficient PWM Boost Converter in ThinSOT-23		
TPS61085-Q1	18.5V, 2A, 650kHz / 1.2MHz Step-Up DC-DC Converter with Forced PWM Mode		
TPS61087-Q1	18.5V, 3.2A, 650kHz / 1.2MHz Step-Up DC-DC Converter with Forced PWM Mode		
TPS61170-Q1	1.2A Switch, High Voltage Boost Converter in 2x2mm QFN Package		
TPS61240-Q1	5V, 400mA, 4MHz Step-Up DC/DC Converter		
<b>Step-Up (Boost) Controller: View the complete portfolio parametric table</b>			
LM5121/22-Q1	3-65V Wide Vin, Current Mode Synchronous Boost Controller with Multiphase or Disconnection Switch Control		
LM3481/88-Q1	48V Wide Vin Low-Side N-Channel Controller for Switching Regulators		
TPS40210-Q1	Wide Input Range Current Mode Boost Controller		
<b>Buck/Boost Converter: View the complete portfolio parametric table</b>			
TPIC74100-Q1	Buck/Boost Switch-Mode Regulator		
TPIC74101-Q1	Buck/Boost Switch-Mode Regulator		
TPS55065-Q1	Buck/Boost Switch-Mode Regulator		
TPS63000-Q1	96% Buck-Boost Converter with 1.8A Current Switches in 3x3 QFN		
<b>Buck/Boost, Inverting Controller: View the complete portfolio parametric table</b>			
LM(2)5118-Q1	3-42V Wide Vin, Current Mode Non-Synchronous Buck-Boost Controller		
TL1451A-Q1	Auto Catalog Dual PWM Control Circuit		
TL5001A-Q1	Pulse-Width-Modulation Control Circuits		
<b>Inverting Converter: View the complete portfolio parametric table</b>			
MC33063A-Q1	1.5-A Peak Boost/Buck/Inverting Switching Regulator		
<b>Inverting Charge Pump: View the complete portfolio parametric table</b>			
TPS60400-Q1	Unregulated 60 m-A Charge Pump Voltage Inverter		
TPS60401-Q1	Unregulated 60 m-A Charge Pump Voltage Inverter		
TPS60402-Q1	Unregulated 60 m-A Charge Pump Voltage Inverter		
TPS60403-Q1	Unregulated 60 m-A Charge Pump Voltage Inverter		
<b>PMW &amp; Resonant Controller: View the complete portfolio parametric table</b>			
TL2843B-Q1	High-Performance Current-Mode PWM Controller		
UC2825A-Q1	High-Speed PWM controller		
UC2843A-Q1	Current-Mode PWM Controller		
UC2856-Q1	Improved Current-Mode PWM Controller		
UCC2800-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2801-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2802-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2803-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2804-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2805-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2808A-1Q1	Current-Mode Push-Pull PWM		
UCC2808A-2Q1	Current-Mode Push-Pull PWM		
UCC2813-0-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2813-1-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2813-2-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2813-3-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2813-4-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC2813-5-Q1	Low-Power BiCMOS Current-Mode PWM		
UCC28220-Q1	Interleaved Dual PWM Controller With Programmable Max Duty Cycle		
UCC28600-Q1	8-Pin Quasi Resonant Flyback Green Mode Controller		
UCC28950-Q1	Green Phase-Shifted Full-Bridge Controller with Synchronous Rectification		
UCC2895-Q1	BiCMOS Advanced Phase-Shift PWM Controller		
UCC28C41-Q1	BiCMOS Current-Mode PWM Controller Auto		
<b>Power Factor Correction: View the complete portfolio parametric table</b>			
UCC28061-Q1	Natural Interleaving Transition-Mode (TM) PFC Controller with Improved Audible Noise Immunity		
UCC28070-Q1	Two-Phase Interleaved CCM PFC Controller		
UCC2818A-Q1	BiCMOS Power Factor Preregulator		

Device	Description	Sample	Datasheet
<b>Backlight: View the complete portfolio parametric table</b>			
TPS61040-Q1	Low-Power DC/DC Boost Converter		
TPS61041-Q1	Low-Power DC/DC Boost Converter		
<b>LED Lighting - Illumination: View the complete portfolio parametric table</b>			
LM3406HV-Q1	1.5A Automotive Constant Current Buck Regulator for Driving High Power LEDs		
LM3409-Q1	PFET Buck Controller for High Power LED Drives		
LM3421-Q1	N-Channel Controllers for Constant Current LED Drivers		
LM3423-Q1	N-Channel Controllers for Constant Current LED Drivers		
LM3424-Q1	Constant Current N-Channel Controller with Thermal Foldback for Driving LEDs		
LM3429-Q1	N-Channel Controller for Constant Current LED Drivers		
TPS40211-Q1	Automotive Catalog Wide Input Range Current Mode Boost Controller		
TPS92602-Q1	2 channel High side current sense switching mode LED driver		
TPS92690-Q1	Automotive N-Channel Controller for Dimmable LED Drives with Low-Side Current Sense		
<b>DDR Memory Power Solution: View the complete portfolio parametric table</b>			
TPS54372-Q1	3-A Output Tracking/Termination Sync PWM Switcher		
<b>DDR Terminator: View the complete portfolio parametric table</b>			
LP2998-Q1	1.5A DDR1 and DDR2 Termination Linear Regulators		
<b>Digital Power Isolated Controller: View the complete portfolio parametric table</b>			
UCD8220-Q1	Digitally Assisted Push-Pull PWM Controller		
<b>Voltage Reference: View the complete portfolio parametric table</b>			
LM4040-N-Q1	Precision Micropower Shunt Voltage Reference		
LM4050-N-Q1	Precision Micropower Shunt Voltage Reference		
LM4128-Q1	SOT-23 Precision Micropower Series Voltage Reference		
<b>Sequencer: View the complete portfolio parametric table</b>			
LM3880/1-Q1	3-Rail Simple Sequencer		

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New Zealand	0800-446-934
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