



Power ICs Article Archive (By Part Number)

This document is a list of the power IC articles published in the How2Power Today newsletter. The types of products listed here include:

- Power supply controllers
- Gate drivers
- Linear regulators
- Switching regulators and
- Point-of-load dc-dc converters
- Battery charger and battery management ICs
- ORing controllers
- LED drivers
- Wireless charging ICs.

While most are monolithic semiconductor devices, some may be multi-chip modules or modules that co-package chips and magnetics or passives—the commonality is that all these products are housed in IC-style packages. Integrated circuits (ICs) using hybrid construction or open-frame PCB construction are generally not included here.

Products are listed here by vendor and part number/product name followed by the title of the article and a link to the article (“For more details...”) For a similar list of product stories by newsletter issue date, see [Power ICs Article Archive \(By Issue\)](#).

For discrete power semiconductors and power semiconductor modules, see the [Discrete Power Semis and Modules Article Archive](#). For more on point of-load regulators and dc-dc converters, including hybrid and pc-board based devices, see [Board-Mounted Power Converter Article Archive](#).

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Akros Silicon:

Akros Silicon's EnergySense family of multi-output, digital dc-dc power management unit ICs, Multi-Rail Digital PMUs Pack Numerous Features, Digital Power Products

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Alpha & Omega Semiconductor:

Alpha & Omega Semiconductor's AOZ1950 white LED backlight driver, Driver IC Lights Up to 12 White LEDs in Series

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Alpha and Omega Semiconductor's AOZ3101 synchronous buck regulator, Monolithic Sync Buck Regulator Operates Efficiently Up to 18 V

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Altera:

Altera's Enpirion EM1130A 30-A Point-Of-Load Converter, Top Five Products And Demos Seen at APEC 2015

[For more details...](#)

Altera's ET4040 monolithic 40-A driver plus synchronous MOSFET powertrain, Driver Stage Tailors Power Conversion Solution To High-Performance FPGAs

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Altera's nine new Altera Enpirion AEC-Q100 qualified power system-on-chip (PowerSoC) devices from the EP53xx and EN63xx families, PowerSoCs Are Automotive Qualified And Ready To Power FPGAs

[For more details](#)

Enpirion's 8-A EV1380 and the 4-A EV1340 dc-dc converters, DC-DC Converters Increase Efficiency for DDR Memory Applications

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Ams:

ams' AS3721 PMIC and AS3729 point-of-load power stage, PMIC Reduces Thermal Stress On Application Processors In Mobil Devices

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Austriamicrosystems' AS5134 angular position sensor, Robust Angular Position Sensor Finds Use In Transmission Control Unit

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Apex Microtechnology:

Apex Microtechnology's MP118FD power operational amplifier, Power Op Amp Improves Circuit Protection, Lowers Quiescent Current For Piezo Transducers

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Apex Microtechnology's PA44X 350-V amplifier ICs, HV Amplifier IC Slashes Noise For Improved Accuracy In Positioning Systems

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Apex Microtechnology's SA160DP H-Bridge motor driver/amplifier, Class D Amplifier Improves Efficiency For Driving Brush-Type Motors

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CamSemi:

CamSemi's C2163 primary-side sensing controller, Controller Exploits BJT To Cut Standby Power And Cost

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CamSemi's C2283 primary-side sensing flyback controller, PSS Flyback Controller Eyes Low-Cost Networking Adapters

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Cirrus Logic:

Cirrus Logic's CS1500 and CS1600 digital power factor correction controller ICs, Digital PFC Controllers Battle Analog Chips On Performance And Price

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Cirrus Logics' CS161X digital LED controller, Digital LED Controller Is Compatible With Nearly All TRIAC Dimmers

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Cirrus Logic's CS1615/16 single-stage LED driver ICs, Single-Stage LED Drivers Deliver High Dimmer Compatibility At Competitive BOM Cost

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Cirrus Logic's CS163X family of digital LED controllers, Digital LED Controller Features Two-Color Mixing

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Cirrus Logics' CS5484/80/90 analog front end ICs for energy measurement, Energy Measurement ICs Optimize Cost And Performance For Smart Meters

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Cirrus Logics' PB63 dual power booster amplifier, Power Booster Increases Slew Rate And Bandwidth, Adds Second Channel

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Cirrus Logic's PA107DP and MP103FCFC hybrid power amps, A Slew of Improved Specs for Piezoelectric Drivers

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Cisoid:

CISSOID's CHT-RIGEL adjustable linear regulator, Wide-Input Linear Regulator Works At Very High Temperatures

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Cisoid's CHT-Vega 225°C Adjustable 500-mA LDO, Adjustable 500-mA LDO Operates To 225°C

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CISSOID's CMT-ANTARES 5-V linear regulator, 200-mA Linear Regulator Pushes Operating Temperature To 175°C

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Cisoid's high-temperature MAGMA PWM controller, Power Devices Perform At Extreme Temperatures

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Cisoid's high-temperature Themis controller and Atlas push-pull driver stage, High-Temperature Controller And Driver Improve Performance Of SiC Switches

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Datel:

Datel's LVR-7815 linear voltage regulators, Hermetically Sealed Linear Regulators Offer Dramatically Lower Cost And A Range Of Grades

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Dialog Semiconductor:

Dialog Semiconductor's iW1679 PWM controller, Digital PWM Controller Cuts BOM Cost, Standby Power In Smartphones

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Efficient Power Conversion:

Efficient Power Conversion's EPC9010 development board, for evaluation of EPC's 100-V eGaN FETs, Development Board Facilitates Design of High-Frequency Converters Using GaN Transistors

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Electronic Design & Research:

Electronic Design & Research's high-speed full-bridge isolated (HS-FBI) H7GvvDaa/e drivers, Full-Bridge Drivers Feature Braking Control And Extreme Speed

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Electronic Design & Research's μ R2M and μ D2M series solid-state relays, Fast-Switching Solid-State Relays Consume Ultra-Low Power

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Freescale Semiconductor:

Freescale Semiconductor's WPR1516 and MWCT1012 wireless charging chips, 15-W Qi-compliant Wireless Charging Solution Charges Larger Devices Faster

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Infineon Technologies:

Infineon Technologies' IR44252L, IR44272L, and IR44273L low-side drivers, Tiny Low-Side Drivers Ease Power System Design

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Infineon Technologies' IR7xxxS series of 700-V HVICs, 700-V Gate Driver ICs Increase System Reliability And Shrink Board Space

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Infineon Technologies' Rapid 1 and Rapid 2 650-V fast-recovery silicon diode families, High-Voltage Silicon Diodes Achieve Ultrafast Recovery

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Integrated Device Technology:

Integrated Device Technology's P95020 portable power management IC, Embedded CPU Makes Power Management IC More Functional and Flexible In Portable Designs

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Integrated Device Technology's wireless power transmitter and receiver ICs, Wireless Power Chipset Shrinks Footprint And Lowers Cost

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International Rectifier:

International Rectifier's AUIR0815S automotive-qualified gate-driver IC, Gate-Driver IC Simplifies Power Train Design In Hybrid And Electric Vehicles

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International Rectifier's AUIRS4426S is a dual-channel low-side driver IC, Low-Side Driver IC Targets Automotive Applications

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IR HiRel's HTB28 hermetic dc-dc converters, 185°C Rated DC-DC Converters Deliver Small Size For Downhole Tools

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International Rectifier's CHiL digital controllers and PowIRstage devices, PWM Controllers And Modules Offer Optimized Power Solutions For VR12.5,

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International Rectifier's third-generation family of CHiL digital PWM controllers, Digital PWM Controllers Deliver Small, Efficient Multiphase Solutions

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International Rectifier's D series rad-tolerant two output dc-dc converters, High-Rel Dual Output DC-DC Converters Target Satellite Power Systems

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International Rectifier's HTH27022S and HTM27092S dc-dc converters, High-Temperature, High-Voltage DC-DC Converters Reduce Design Time For Down-Hole Applications

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International Rectifier's IR1169 high-speed synchronous rectifier controller, Synchronous Rectifier Controller With Sync Function Simplifies SMPS Designs
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International Rectifier's IR3541, IR3536, and IR3538 multiphase digital PWM controllers, Digital Power Controllers Deliver High Efficiency, Digital Power Products
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International Rectifier's IR3551 50-A PowIRstage module, Power Device Enhances Scalability In Computing And Consumer Applications
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International Rectifier's IR3837M, IR3838M and IR3839M SupIRBuck point-of-load voltage regulators, Point-Of-Load Regulators Extend Functionality and Performance
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International Rectifier's IR3847 Gen3 SupIRBuck voltage regulator, Buck Converter Delivers 25 A From A 5-mm x 6-mm PQFN
[For more details...](#)

International Rectifier's IR11672A synchronous rectification controller, Controller Eases Compliance With Power Supply Efficiency Standards
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International Rectifier's IRS2505L PFC boost IC, Controller In SOT-23 Shrinks Boost PFC Circuits
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International Rectifier's IRS2548D switched-mode power supply control IC with integrated PFC control, Driver IC Simplifies Design, Increases Efficiency For High-Power LED lighting
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International Rectifier's IRS2573D HID ballast controller IC, Control IC Simplifies HID Ballast Design
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International Rectifier's IRS2580DS Combo8 PFC + Half-Bridge Ballast IC, Chip Integrates PFC And Lamp Ballast Control In SO-8 Package
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International Rectifier's μ IPM power modules, Power Modules Shrink Footprint For Appliances And Industrial Applications
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Intersil:

Intersil's ISL2802x family of digital power monitors, Highly Integrated Digital Power Monitors Work With Supplies Up To 60 V

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Intersil's ISL70001 and ISL70002 6-A and 12-A SEE immune synchronous buck regulatorsm, Rad-Hard Power Converters Ride Intermediate Bus Into Space

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Intersil's ISL75051SRH radiation-tolerant ultra-low dropout regulator, Rad-Hard Power Converters Ride Intermediate Bus Into Space

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Intersil's ISL78227 and ISL78229 two-phase synchronous boost controllers, Highly Integrated Multi-Phase Boost Controllers Simplify Automotive Designs

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Intersil's ISL8205M and ISL8202M stepdown power modules, POL Modules Offer High Density For Battery-Powered Industrial Applications

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Intersil's ISL8225M 30-A fully-encapsulated POL power module, Module Is Fully Encapsulated 30-A POL Converter

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Intersil's ISL8272M 50-A Point-Of-Load Converter, Top Five Products And Demos Seen at APEC 2015

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Intersil's ISL8273M digital dc-dc PMBus power module, Digital Power Module Delivers 80 A For FPGAs, Processors And Memory

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Intersil's ISL94203 Li-ion battery monitor, IC Extends Life Of Multi-Cell Li-ion Batteries

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iWatt:

iWatt's iW1810 digitally controlled PWM IC with built-in BJT, Power Chip Builds Efficient, Low-Cost Supplies for Industrial Applications

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iWatt's iW3606 and iW3608 dimmable single-stage, LED drivers, Single-Stage LED Drivers Enable Wide Bulb Dimming Range With Lower BOM Cost

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iWatt's iW3612/iW3602 digitally controlled, offline power supply controllers for dimmable LED luminaires, Digital LED Drivers Deliver Flicker-Free Dimming And Hot-Plug Support

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iWatt's iW3616 and iW3617 digital LED drivers, SSL LED Drivers Feature Flickerless Performance And Digital Dimming Control

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iWatt's iW3626 single-stage LED driver, Single-Stage LED Driver Cuts BOM Cost in Price-Sensitive Retrofit Bulbs

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IXYS:

IXYS Integrated Circuits Division's IX4426, IX4427, and IX4428 dual low-side gate driver ICs, Low-Cost Gate Drivers Handle Wide Operating Voltage Range

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Linear Technology:

Linear Technology's LT1952/-1 single-switch forward controller, LTC3900 synchronous rectifier driver, and LT4430 secondary-side optodriver, Forward Converter Chipset Is Specified Over -55°C to 125°C Range, High-Temperature Components For Power Design

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Linear Technology's LT3743 synchronous stepdown converter, 20-A LED Driver Addresses Color-Mixing Challenges

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MagnaChip Semiconductor:

MagnaChip Semiconductor's MAP8800 PFC controller, PFC Controller Integrates Numerous Protection Features

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Maxim Integrated:

Maxim Integrated's Himalaya power modules, New Type Of Power Module Offers Greater Integration, Path To Cost Reduction

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Maxim Integrated Products' MAX11068 12-cell battery-monitoring IC, Battery-Monitoring IC Cuts Cost In Hybrid And Electric Vehicles

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Maxim Integrated Products' MAX15040 4-A, synchronous switching regulator, 4-A Regulator Shrinks To 2-mm x 2-mm Footprint

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Maxim Integrated's MAX16993 automotive power management IC, PMIC Reduces Board Space, Noise, And Power Consumption In Automotive Instrument Clusters

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Microchip Technology:

Microchip Technology's dsPIC GS series of 16-bit digital signal controllers, DSCs Expand Feature Set To Support More Complex Digital Power Apps

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Microchip Technology's dsPIC33EP "GS" family of digital signal controllers, DSCs Offer Lower Latency, Live Update And More For Digital Power Supply Designs

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Microchip Technology's MCP19111 digitally enhanced power analog controller with integrated synchronous driver, Hybrid Power Controller Chip Delivers Benefits of Analog + Digital Control

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Microchip Technology's MCP19118 and MCP19119 digitally enhanced power analog controllers, PWM Controllers Feature 40-V Operation And PMBus Interface

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Navitas Semiconductor:

Navitas Semiconductor's 650-V GaN Power ICs, GaN Power ICs Integrate Power FET With Gate Drive And Logic

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ON Semiconductor:

ON Semiconductor's LV8702V stepper-motor-driver IC, High-Efficiency Stepper Motor Driver IC Targets Office Automation Equipment

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ON Semiconductor's NCP69x families of 1-A CMOS LDOs, LDOs Deliver CMOS Advantages and Robustness

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ON Semiconductor's NCV8871 nonsynchronous boost controller, Automotive-Grade Boost Controller Boasts Wide Input Range, High-Temperature Components For Power Design

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Peregrine Semiconductor:

Peregrine Semiconductor's PE9915x family of rad-hard buck regulators with integrated switches, Rad-Hard Power Converters Ride Intermediate Bus Into Space

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Power Integrations:

Power Integrations' CAPZero family of zero-loss automatic X-capacitor discharge ICs, ICs Control Discharge Of X Capacitors, Reduce Losses in EMI Filters

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Power Integrations' CHY103D charger-interface IC, Charger Interface IC Eases Implementation Of Quick Charge 3.0 Protocol

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Power Integrations' LinkSwitch-HP family of off-line switcher ICs, Offline Switcher ICs Extend Benefits Of Primary-Side Regulation Up To 90 W

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Powervation:

Powervation's PowerSMART design tool and firmware for the PV3012, Upgraded Design Tool, New Firmware Enhance Capabilities Of Digital Controller

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Powervation's PV3012 dual-phase digital dc-dc controller, Digital Controller Provides Real-Time Adaptive Loop Compensation, Digital Power Products

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Powervation's PV3103, PV3104, and PV3202 digital dc-dc controllers, Digital Controllers Support VR12/12.5 And PMBus

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Renesas Electronics:

Renesas Electronics' RJQ6020DPM, RJQ6021DPM, and RJQ6022DPM SiC compound power devices, Compound Power Devices Co-Package SiC Schottkys With MOSFETs Or IGBTs

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Renesas Electronics' RJS6005TDPP SiC Schottky barrier diode, 600-V SiC Schottky Targets Air Conditioners, Base Stations, And Solar Arrays

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Rohm Semiconductor:

Rohm's BD39001EKV-C power management IC, PMIC Keeps Automotive MCUs Running Reliably Under Start-Stop Operation

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Rohm's BD7682FJ-LB ac-dc converter control IC, Controller IC Eases Application Of SiC MOSFETs In AC-DC Power Supplies

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ROHM Semiconductor's BD9G101G and BU9000xGWZ switching regulators, Switching Regulators Offer High Operating Voltage, Wide Temp Range, Small Size

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ROHM Semiconductor's BD9G101G dc-dc converter IC and BU90002GWZ 6-MHz synchronous stepdown regulator IC, Tiny Stepdown Regulators Deliver Extended Voltage And Temp Ranges

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Rohm's BD99991GW and BD99992GW power management ICs, Power Management ICs Are Optimized For Intel's Skylake Core Processor

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Rohm's Reference design using the BD57015GW wireless power receiver IC, Reference Design For Medium-Power Wireless Power Receiver Is Qi-Certified

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Rohm's wireless power reference design, Medium-Power Wireless Transmitter Reference Design Is Certified To Qi V 1.2

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Semtech:

Semtech's SC120, SC121 and SC122 boost converter ICs, Boost Converters Feature Tiny Packaging and Low Input Voltage

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Semtech's SC173, SC174, and SC493 EcoSpeed dc-dc converter ICs, DC-DC Converters Deliver Fast Response and High Efficiency

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Semtech's TS80K wireless charging platform, Wireless Charging Solution Is Adopted By Tier I Computer Makers

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Silego Technology:

Silego Technology's SLG59H100xV integrated power controllers, Controllers Feature Ultra-Stable On-Resistance For Power Rail Switching

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Silego Technology's SLG59M1603V integrated power switch, Integrated Power Switch Features Reverse-Current Blocking

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Silicon Laboratories:

Silicon Labs' Si827x ISOdriver family of isolated gate drivers, Isolated Gate Drivers Offer High Noise Immunity, Enabling Fast Switching

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Silicon Laboratories' Si85xx family of ac current sensors, Higher Isolation Extends Use of AC Current Sensors

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Silicon Laboratories' Si87xx CMOS-based digital isolators, CMOS-Based Isolators Are Pin, Footprint Compatible With Standard Optocouplers

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Silicon Laboratories' Si890x isolated ADCs for mains line monitoring, Isolated ADCs Simplify Line Voltage Monitoring For Solar Inverters And Power Supplies

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STMicroelectronics:

STMicroelectronics L6520 lamp ballast controller IC, Highly Integrated Controller Works With BJTs To Cut Cost of Lamp Ballasts

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STMicroelectronics' MDMesh M2 EP power MOSFETs, Power MOSFETs Feature Low Turn-Off Losses

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STMicroelectronics' STLUX385 digital controller for lighting and power supply applications, Universal Lighting Controller Promises To Enhance Many Applications

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STMicroelectronics' STM32F334 Digital Power microcontrollers, MCUs With High-Res Timer Ease Transition To Digital Power Control

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STMicroelectronics' STNRG digital-controller family, Controllers Simplify Digital Power Conversion And Enhance Performance

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Summit Microelectronics:

Summit Microelectronics' SMB220 and SMB221 10-A and 20-A digitally programmable buck regulators, Buck Regulators Deliver Highly Integrated Designs, Digital Power Products

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Supertex:

Supertex's SR10 capacitor-coupled switched-shunt regulator, Shunt Regulator Minimizes Standby Power For Always-On Applications

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Texas Instruments:

National Semiconductor's LMZ series of Simple Switcher power modules, Modules Make Simple Switchers Even Simpler

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Texas Instruments' bq25100 single-cell Li-ion charger, Tiny Li-ion Charger Targets Wearable Applications

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Texas Instruments' bq2589x single-cell Li-on charger, IC Speeds Charging Of Li-ion Batteries

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Texas Instruments' bq500412 Qi-compliant wireless power transmitter manager, Controller Cuts Cost For Qi-compliant Wireless Chargers

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Texas Instruments' bq51013 wireless power receiver IC, Receiver Chip Shrinks Qi-Compliant Wireless Power Designs

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Texas Instruments' bq51025 wireless charging receiver and bq500215 wireless power transmitter controller, Wireless Power Chipset Offers 10-W Solution

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Texas Instruments' bq76PL455A-Q1 battery monitor and protector, 16-Cell Li-ion Monitor Eases Battery Management For Hybrids, EVs And Grid Storage

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Texas Instruments' LM27403 synchronous buck controller, Buck Controller Features Inductor DCR-Based Overcurrent Protection

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Texas Instruments' LM3290 buck-boost converter and LM3291 linear amplifier, Envelope Tracking Power Chips Boost Efficiency In Smartphones

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Texas Instruments' LM5114 low-side gate driver, Gate Drivers Work With Silicon Or GaN FETs

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Texas Instruments' LM74610-Q1 smart diode controller, Smart Diode Controller Delivers Reverse Polarity Protection With No I_Q

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Texas Instruments' LMG5200 integrated half-bridge GaN FET power-stage, GaN FETs + Driver Module Lowers Barriers To GaN-Based Power Design

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Texas Instruments' LMR22007 750-mA switching regulator, 750-mA POL Requires Just 30-mm² Of Board Space

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Texas Instruments' SM74611 smart bypass diode, Smart Bypass Diode Lowers Power Dissipation

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Texas Instruments' TPS7A30 negative 36-V low dropout regulator, Negative 36-V LDO Delivers Low-Noise Performance

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Texas Instruments' TPS40400 2-MHz single-channel controller and TPS40422 dual-channel controller, Analog Buck Controllers Feature PMBus Interface, Digital Power Products

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Texas Instruments' TPS50601-SP 6-A POL for harsh environments, Rad-Hard Power Converters Ride Intermediate Bus Into Space

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Texas Instruments' TPS62736 Nano-power Buck Converter, Low-Power Buck Converter Aims To Accelerate Energy Harvesting Designs

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Texas Instruments' TPS63020 buck-boost converter IC, Buck-Boost Converter Slashes Board Space Requirements

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Texas Instruments' TPS7H1101-SP and the TPS7H1201-HT LDOs, Current-Sharing LDOs Double Current Capability For Harsh Environments

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Texas Instruments' 600-mA TPS82671 and 6-A TPS84620 point-of-load power converters, Modules Shrink Point-of-Load Converters For Portable and Industrial Applications

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Texas Instruments' TPS92690 n-channel controller for dimmable LED drives, Versatile LED Driver Features Adjustable Frequency And Low-Side Current Sense

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Texas Instruments' UCC275xx-Q1 family of single- and dual-channel gate drivers, Gate Drivers For Automotive Applications Feature Fast Propagation Delays

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Texas Instruments' UCC27531 and UCC27532 single-channel output stage gate drivers, Gate Drivers Are Optimized For IGBTs And SiC FETs

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Texas Instruments' UCC27714 high-speed, low-side gate driver, Gate Driver Shrinks Delay And Board Space For Server Power Supplies

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Texas Instruments' UCC28180 CCM PFC controller, PFC Controller Extends Range On Switching Frequency, Lowers Losses In Shunt Resistor

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Texas Instruments' UCC28910 700-V flyback switcher and UCC28630 PWM controller, Flyback ICs Limit Standby Power to <30-mW For Offline Supplies

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Texas Instruments' UCD3138 digital controller for isolated power supplies, Digital Controller Provides Flexibility And Performance For Isolated Supplies

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Vicor:

Vicor's ChiP DCM and HD Brick dc-dc converters, DC-DC Converters Push Limits On Power Density For A Range Of Applications

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Vicor's IBC Power Simulation tool, Simulation Tool Speeds Evaluation And Selection Of Intermediate Bus Converters

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Vicor's non-isolated, bidirectional bus converter modules (NBMs), Bus Converter Modules Are Non-Isolated And Bidirectional

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A subsidiary of Vicor, Picor's PI2007 and PI2127 high-side active ORing devices, High-Side Active ORing Devices Deliver Fast Response for Intermediate Bus Applications

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Vicor's Picor Cool-Swap PI2211 hot swap controller and circuit breaker, Hot Swap Controller Emulates MOSFET Thermal Performance

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Vicor's Picor Cool-Power PI3106 isolated dc-dc converter, DC-DC Converters Deliver 334 W/in³ For Industrial And Military Applications [For more details...](#)

Vicor's Picor PI33XX Cool-Power ZVS buck regulator series, Zero-Voltage Switching Boosts POL Efficiency To 98% [For more details...](#)

Vicor's User-Defined, VI Chip PRM Modules, User-Defined Power Modules Take Configurability To A New Level [For more details...](#)

Vicor's VI Chip bus converter module built in the ChiP platform. 380-V Input Bus Converter Raises Efficiency And Power Density To Benefit HVDC Power Distribution [For more details...](#)

Vicor's VRM solution compliant with Intel's VR12.5 voltage regulation specification, VTM Current Multiplier In New ChiP Packaging Will Support VR12.5 Applications [For more details...](#)