

Power IC News Sponsored by Efficient Power Conversion (EPC)

This document is a list of the power IC articles published in the How2Power Today newsletter. 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 copackage chips and magnetics or passives—the commonality is that all these products are housed in IC style packages. Integrated circuits using hybrid construction or open-frame PCB construction are generally not included here. However, reference designs featuring ICs are listed here.

Products are listed here using the following format:

Issue date:

Article title, Part number/product name

For more details...(link to article)

January 2024:

GaN FETs With Integrated Gate Drivers Shrink AC-DC Adapters, Texas Instruments' LMG3622, LMG3624 and LMG3626 GaN FETs

For more details...

January 2023:

900-V GaN Power ICs Feature Low On-Resistance And Low Leakage, GaNPower International's GPI4TIC15DFV and GPI6TIC15DFV GaN ICs



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

ZVS Power-Supply ICs Combine Programmability, High Efficiency and Small Size, Power Integrations' InnoSwitch4-Pro family of flyback ICs

For more details...

February 2023:

Compact eFuses Offer 2.8-V to 23-V Operating Range, Vishay Intertechnology's SiP32433A/B and SiP32434A/B eFuses

For more details...

Wide-Voltage-Range Hot-Swap Controller Offers Programmable Digital SOA Control, Infineon Technologies' XDP710 digital controller

For more details...

IC Enables Safe And Flexible Power Distribution In Automotive E/E
Architectures, Renesas Electronics' RAJ2810024H12HPD Intelligent Power Device
For more details...

Buck-Boost Reference Design Yields Small 140-W Fast Charger, From EPC and Richtek, a bidirectional buck-boost controller reference design board

For more details...

High-Voltage Driver Offers A Highly Integrated Solution For MEMS
Switches, Menlo Micro's MM101 eight-channel driver with integrated charge pump
For more details...

Rad-Tolerant LDO Targets LEO Applications, Microchip Technology's MIC69303RT 3-A COTS low-dropout voltage regulator

For more details...

Laser Driver IC Enables Higher-Density Lidar Systems, EPC's EPC21701 laser driver IC with 80-V, 40-A FET for time-of-flight lidar systems

For more details...

A Highly Integrated Gate Driver IC For Battery-Powered BLDC Motor Drives, Infineon's 6ED2742S01Q MOTIX three-phase gate driver IC

For more details...

March 2023:



Power IC News Sponsored by Efficient Power Conversion (EPC)

Designs Accelerate Development Of EV Charging, Vehicle Cluster Control And Other Applications, Renesas Electronics' 10 Winning Combinations engineeringvetted designs

For more details...

Cost-Optimized, Energy-Saving Designs For Power Supplies And Battery Chargers, Pulsiv's PSV-RDAD-75FB and PSV-RDAD-100FB reference designs

For more details...

Automotive High-Side Drivers Are Scalable And Feature Rich, STMicroelectronics' VIPower M0-9 series gate drivers

For more details...

April 2023:

Active EMI Filter ICs Enable Smaller Power Supply Designs, Texas Instruments' TPSF12Cx family of active EMI filter ICs

For more details...

900-V Switcher ICs Benefit EV And Industrial Applications, Power Integrations' 900-V InnoSwitch3 flyback switcher ICs

For more details...

BMS Controller Improves Li-Ion Battery Performance, STMicroelectronics' L9961 battery-management-system (BMS) device

For more details...

Single-Chip Intelligent Battery Management Solutions For 20-Cell Systems, Qorvo's PAC22140 and PAC25140 Power Application Controller (PAC) devices For more details...

ASIL C Safety-Rated Field Current Sensor For EV Powertrain Systems, Allegro MicroSystems' ACS37601 high-precision, field current sensor For more details...

Integrated 100-V GaN Half-Bridge With Driver Saves Board Space, Innoscience Technology's ISG3201 SolidGaN half-bridge

For more details...

May 2023:



Power IC News Sponsored by Efficient Power Conversion (EPC)

Gan FETs Plus Controller Build High-Density Buck Converter Reference Design, EPC's EPC9158 synchronous buck reference design board

For more details...

Smart High-Side Switches Protect Sensitive ADAS Loads And The Power Distribution System, Infineon Technologies' PROFET Load Guard 12-V power switches

For more details...

Buck Converters Ease Tradeoffs In Size Versus Efficiency, Diodes' AP62500 and AP62800 synchronous buck converters

For more details...

June 2023:

SiC Gate Driver Improves Efficiency, Simplifies Design For EV Traction Inverters, Texas Instruments' UCC5880-Q1 isolated gate driver

For more details...

A Highly Integrated Wireless Power Transmitter IC For Applications Up To 50 W, Infineon Technologies' WLC1150 wireless charging transmitter IC

For more details...

MCUs Offer An Array Of Features For Motor Control Applications, Renesas Electronics' RX and RA families of MCUs

For more details...

SiC E-Fuse Demonstrator Eases Design Of Solid-State Power Protection, Microchip Technology's SiC-based E-fuse demonstrator board

For more details...

Design Option For Buck Converter IC With Intelligent Power Sharing, Silanna Semiconductor's Power Density Hero online configuration tool can now be used with the SZPL3002A IC

For more details...

July 2023:

GaN Driver Integrates Galvanic Isolation For Power Rails Up To 1700 V, STMicroelectronics' STGAP2GS gate driver



Power IC News Sponsored by Efficient Power Conversion (EPC)

PMIC Integrates Essential Functions For Bluetooth Low Energy Designs, Nordic Semiconductor's nPM1300 power management IC

For more details...

August 2023:

MCU Embedded Power ICs With CAN FD Interface Provide Faster Communication, Infineon Technologies' TLE988x and TLE989x MOTIX MCU embedded power ICs

For more details...

High-Voltage Driver Shrinks Design For Ultrasound Scanners, STMicroelectronics' STHV200ultrasound IC

For more details...

September 2023:

Hall-Effect And Integrated-Shunt Current Sensors Offer High Accuracy, Texas Instruments' TMCS1123 Hall-effect and EZShunt current sensors For more details...

Power Op Am Delivers High Power With High Speed, Apex Microtechnology's PA198 precision power amplifier

For more details...

Automotive-Grade, Hall ICs Feature 42-V Withstand Voltage, ROHM's BD5310xG-CZ/BD5410xG-CZ series Hall ICs

For more details...

October 2023:

Robust Integrated GaN Platform Is Optimized For High-Power Applications, Navitas Semiconductor's GaNSafe Power ICs

For more details...

EMCA Controller With EPR Protects Up To 54 V For Passive USB-C Cables, Infineon Technologies' EZ-PD CMG2 USB-C electronically marked cable assembly (EMCA) controller

For more details...

Demo Boards For High Efficiency AC-DC Power Supply Technology, From Saelig comes Pulsiv's PSV-AD-250-DS evaluation boards for the OSMIUM microcontroller family



Power IC News Sponsored by Efficient Power Conversion (EPC)

November 2023:

Switcher ICs Feature 1250-V GaN Switch, Power Integrations' InnoSwitch3-EP 1250-V ICs

For more details...

GaN-Based Reference Design Shrinks Motor Drives For eBikes, Robots And Drones, EPC's EPC9194 motor drive inverter reference design

For more details...

16-bit MCU Delivers High Performance For Motor And Power Supply Control, Renesas Electronics' RL78/G24 MCU

For more details...

December 2023:

Flyback Architecture Delivers High Efficiency For Applications Below 120 W, Eggtronic's QuarEgg primary-side regulated flyback solution

For more details...

Full-Bridge Drivers For Brushed DC Motors Are Scalable And Flexible, STMicroelectronics' STSPIN948 and STSPIN958 are scaleable full-bridge drivers For more details...

January 2022:

Boost Converter Demo Board Shows Off Benefits Of Controller & GaN FETs Combo, Efficient Power Conversion's EPC9166 demo board

For more details...

Automotive Boost Controller Shrinks Class-D Audio Amplifier, Analog Devices' MAX25203 boost controller

For more details...

Silicon-Based ACF Reference Design Challenges GaN-Based Chargers, Silanna Semiconductor's active clamp flyback-based reference design for 33-W 1C fast chargers

For more details...

February 2022:



Power IC News Sponsored by Efficient Power Conversion (EPC)

A 2-kW Bidirectional Converter Reference Design Board With High Efficiency, Efficient Power Conversion's EPC9170 demo board

For more details...

Smart Gate Driver With SPI Protects 48-V Battery Systems In Mild Hybrids, Infineon Technologies' 2ED4820-EM EiceDRIVER gate driver

For more details...

Switcher ICs With 1700-V SiC MOSFET Simplify EV Power Supply Design, Power Integrations' INN3947CQ-TL and INN3949CQ-TL power supply ICs

For more details...

High PSRR LDO With Soft Start Powers Automotive Sensor Systems, Nisshinbo Micro Devices' NR1640 series LDO regulator

For more details...

Dual Gate Drivers For SiC And IGBT Switching, STMicroelectronics' STGAP2HD and STGAP2SICD galvanically-isolated gate drivers for IGBTs ('2HD) and SiC MOSFETs ('2SICD)

For more details...

Buck Converter Reduces Space In Multi-Cell Battery Applications, Analog Devices' MAX77540 buck converter

For more details...

100-V Gate Driver Raises Efficiency, Saves Space, Diodes' DGD0579U highside and low-side gate driver with built-in bootstrap diode

For more details...

March 2022:

All-Silicon, 65-W ACF Reference Design Challenges GaN-Based Adapter Designs, Silanna Semiconductor's RD-31 active clamp flyback (ACF)-based reference design

For more details...

April 2022:

APEC 2022: GaN Power Devices And Advanced Topologies Are Put To Work In Latest Adapter Designs

• Eggtronic's SmartEgg ac-dc architecture for power applications in the 75- to 1-kW range, and the associated 230-W demo



Power IC News Sponsored by Efficient Power Conversion (EPC)

- Silanna Semiconductor's AnyPort RD-5 multi-port fast charger reference design, RD-16 100-W 2C1A multi-port USB-PD reference design and RD-25 118-W 1C1A multi-port USB-PD reference design and Smarter Living's 3510PDFE 65-W charger
- Power Integrations' HiperPFS-5 family of quasi-resonant PFC ICs with a 750-V GaN switch, HiperLCS-2 chipset for LLC resonant converters, and DER-916 reference design for a Multi-Port USB-C Wall Outlet Without Buck Converters

 For more details...

Charge-Pump Converter Expands Options For Distributing Board-Level Power, Murata's MYC0409 charge-pump capacitor-divider module

For more details...

Quasi-Resonant PFC Chips With GaN Switch Shrink PFC Stage For Adapters, Power Integrations' HiperPFS-5 family of power-factor-correction ICs

For more details...

Chipset Boosts LLC Converter Efficiency, Slashes Component Count, Power Integrations' HiperLCS-2 resonant switch and synchronous rectification chipset

For more details...

May 2022:

Tiny, Quad-Output Regulators Need No External Inductors Or Capacitors, Empower Semiconductor's EP71xx integrated voltage regulators

For more details...

SSRs Shrink Design Size, Improve Reliability And Safety In 800-V EVs, Texas Instruments' TPSI3050-Q1 isolated switch driver and TPSI2140-Q1 isolated switch

For more details...

Gan IC Enables Fast Switching, Narrow Pulses For Automotive Lidar, Efficient Power Conversion's EPC2221 common-source dual Gan FET

For more details...

Amplifier Combines High-Definition Sound With Class-G Efficiency, STMicroelectronics' TDA7901 automotive amplifier with buck controller for class-G power switching

For more details...

June 2022:



Power IC News Sponsored by Efficient Power Conversion (EPC)

PMIC Complements Bluetooth Low Energy Chips, Nordic Semiconductor's nPM1100 power management IC

For more details...

65-W ACF Reference Design Achieves 30-W/in³ Power Density, Innoscience Technology and Silanna Semiconductor's 65-W active clamp flyback (AFC) reference design

For more details...

Switcher ICs Extend Adapter Designs To 220 W With Small Size, Power Integrations' InnoSwitch4-CZ and the ClampZero ICs

For more details...

Architecture Simplifies Development Of Multi Port Chargers, Silanna Semiconductor's AnyPort architecture

For more details...

LDO Features Low Noise, Dropout And Quiescent Current, STMicroelectronics' LD56020 200-mA low-dropout voltage regulator

For more details...

July 2022:

Highly-Integrated Motor Controllers For Battery-Powered Products, Infineon Technologies' MOTIX IMD700A and IMD701A motor controllers

For more details...

Automotive LDO Regulators Are Stable With 100-nF Output Capacitance, ROHM Semiconductor's BD9xxN1 series LDOs

For more details...

August 2022:

Buck Regulators With Integrated Inductor Save Space, Infineon Technologies' TDM3883 and TDM3885 synchronous buck regulators

For more details...

September 2022:

NSREC Notes: Exhibitors Showcase Latest Reference Designs Along With Progress In Rad-Tolerant And Rad-Hard Power Components



Power IC News Sponsored by Efficient Power Conversion (EPC)

Powering Space-Grade FPGAs

- Renesas' rad-hard power management reference designs for the Xilinix Kintex XQRKU060 FPGA and the Microsemi RTG4 FPGA
- IR HiRel's rad-hard RIC74424 gate-driver eval board
- Vicor's three-chip solution for stepping down a 100-V bus to 3 V at 50 A
- EPC Space's EPC7C006 reference design demo board for a rad-hard threephase motor control plus driver with GaN FETs
- Texas Instruments showed Alpha Data's development board for the Versal space-grade (rad-tolerant) FPGA from Xilinx, which contains TI's power management solution for all the power rails; TI also showed the TPS7H5001-SP rad-hard PWM controller and TI's demo board for the TPS7H4010 SEP 6-A 30-V input POL
- Apogee Semiconductor's AFP1422 rad-hard PWM controller IC

Other Updates

- Analog Devices' RH3845MW dc-dc controller and the ADLT3045S and RH3080 linear regulators
- STMicroelectronics' eval board for the RHRPMICL1A integrated current limiter

For more details...

25-A And 40-A Buck Regulators Feature SVID And I²C/PMBus Interfaces, Infineon Technologies' TDA38640, TDA38740 and TDA38725 OptiMOS 5 IPOL devices

For more details...

October 2022:

Novel Approach To PFC Enables High Efficiency With Optimized System Cost, Pulsiv's OSMIUM microcontrollers

For more details...

GaN Half-Bridge Power ICs Enable Megahertz Switching, Navitas Semiconductor's NV6247 and NV6245C GaNSense half-bridge ICs



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

Buck Regulators Provide Dynamic Voltage Scaling With Programmable Slew Rate, Halo Microelectronics' HL7593 and HL7594 synchronous buck converters

For more details...

November 2022:

1-kV Voltage Sensor Measures V_{DS} Of SiC And GaN Transistors, Tell-i Technologies' VON1k5Vm sensor

For more details...

Another Source For Automotive LDOs With Options For Higher Integration, Taiwan Semiconductor's TQL8xx low-dropout regulators

For more details...

Flyback PWM Controllers Enable Small Footprints For Fast Charging Solutions, Elevation Semiconductor's HL9510 and HL9512 controller ICs

For more details...

Chip Balances Supercapacitors Rated At 3.0 V And Higher, Advanced Linear Devices' ALD810030 precision MOSFET array

For more details...

Buck Converter IC For ADAS Achieves Highly Stable Operation, ROHM Semiconductor's BD9S402MUF-C buck converter IC with built-in MOSFET For more details...

December 2022:

PFC And Hybrid-Flyback IC Drives Performance In GaN-Based USB-C Adapters, Infineon Technologies' XDPS2221 controller IC for USB-PD

For more details...

Highly Configurable, Compact PMIC For The IoT, Qorvo's ACT88420 power management IC

For more details...

January 2021:



Power IC News Sponsored by Efficient Power Conversion (EPC)

PMBus-Compliant Buck Regulators Deliver Up To 40 A In 5-mm x 7-mm Package, Vishay Siliconix SiC45x family of microBUCK regulators

For more details...

Automotive DC-DC Converters Offer Stable Output, Fast Response And High Efficiency, ROHM's BD9P series dc-dc converters

For more details...

February 2021:

Receiver IC Puts Wireless Charging Speeds On Par With 60-W Adapters, Renesas Electronics' P9418 60-W wireless power receiver IC

For more details...

24-V Dual-Channel Gate Driver For Large Power Switches, Infineon Technologies' 2ED24427N01F low-side gate driver with an integrated thermal pad For more details...

March 2021:

Laser Driver IC Could Spur Burst Of Activity In Lidar Applications, Efficient Power Conversion's EPC21601 laser driver IC

For more details...

Smart Controller Combines Motion Control Engine With Three-Phase Gate Driver, Infineon Technologies' IMD110 iMOTION Smart Driver series

For more details...

Class-D Amp For High-Definition Audio Adds Safety-Related Diagnostics, STMicroelectronics' HFDA801A high-resolution audio amplifier

For more details...

NSREC Notes:

Space Power Components Answer Calls For Higher Performance, Lower Cost



Power IC News Sponsored by Efficient Power Conversion (EPC)

- Bringing Higher Reliability To Plastic Parts, Renesas's Intersil space plastic products including the ISL73033SEH low-side driver and 100-V GaN FET, the ISL71001SLH/SEHM 6-A synchronous buck regulator, the ISL71610SLHM digital isolator with passive input, and the ISL71710SLHM digital isolator with active input
- A PWM Controller Fast Enough For GaN, Apogee Semiconductor's AFP1422 radiation-hardened PWM controller
- Smart Power Switch Controller Brings Greater Integration, CAES's UT36/UT05PFD103 smart power switch controller
- Higher Current And Wider Input Range For Point-Of-Load Converters, Texas Instruments' TPS7H4001-SP space-grade 18-A buck converter and TPS7H4010-SEP space-enhanced plastic 3.5-V to 32-V, 6-A buck converter For more details...

April 2021:

DC-DC Controllers Integrate Active EMI filter For Smaller Solution Size, Texas Instruments' LM25149-Q1 and LM25149 dc-dc controllers

For more details...

AC-DC Converter ICs Ease Design For Appliances, Sensors And Meters, Power Integrations' LNK3207 ac-dc converter ICs

For more details...

Half-Bridge And High-Side/Low-Side Gate Drivers Are Tailored For Fast Switching, Infineon Technologies' 2ED2103S06F/2ED2104S06F half-bridge and 2ED2110S06M/2ED2101S06F high- and low-side gate drivers

For more details...

Power ICs Extend Battery Life In Consumer, Industrial, Healthcare And IoT Designs, Maxim Integrated Products' MAX17227A and MAX17291 boost converters and MAX38911 LDO

For more details...

Tiny, Programmable Mixed-Signal ASIC Features I²C Interface, Dialog Semiconductor's SLG46811 GreenPAK device



Power IC News Sponsored by Efficient Power Conversion (EPC)

Highly Integrated Switching Regulator Delivers Fast Transient Response, Empower Semiconductor's IVR EP7010 10-A Integrated Voltage Regulator

For more details...

May 2021:

Inverter Eval System Shows >99% Efficiency At 100 kHz Using SiC MOSFETs, Pre-Switch's CleanWave200 inverter evaluation system, offers the option of a chip-level implementation of its controller

For more details...

PMICs Offer Customized And Compact Power Supply Solutions For FPGAs,AnDAPT Amp PMICs

For more details...

Plug-And-Play Gate Drivers Target Railway Applications, Power Integrations' SCALE-2 gate drivers

For more details...

Easy-To-Design-In Gate Drivers Offer Reinforced Isolation, Infineon Technologies' EiceDRIVER X3 gate driver families

For more details...

Isolated Gate Driver Safely Controls SiC MOSFETs, STMicroelectronics' STGAP2SiCS STGAP family of isolated gate drivers

For more details...

Reference Design Compact USB Type-C 27-W Power Adapters, STMicroelectronics' STEVAL-USBPD27S USB Type-C Power Delivery 3.0 reference design, which includes the STM32G071 microcontroller, the STCH03 PWM controller and the TCPP01-M12 USB Type-C protection IC

For more details...

600-V IGBT IPMs Reduce Radiated Noise And Power Loss, ROHM Semiconductor's four new members of the BM6437x series of 600-V IGBT intelligent power modules (IPMs)

For more details...

June 2021:

900-V Switcher ICs Benefit EV Designs With 400-V, 800-V And Even Higher Voltage Buses, Power Integrations' INN3996CQ flyback switcher IC



Power IC News Sponsored by Efficient Power Conversion (EPC)

Programmable Three-Phase Driver IC Enables More-Integrated Designs For Power Tools, Infineon Technologies' 6EDL7141 three-phase gate driver IC

For more details...

Photocouplers Save Space In Industrial Drives And Solar Inverters, Renesas' RV1S9231A, RV1S9207A and RV1S9209A photocouplers

For more details...

Isolated Gate Drivers Are Optimized For EVs And Industrial Applications, Silicon Labs' Si828x version 2 isolated gate driver product family

For more details...

July 2021:

Totem-Pole PFC Controller Provides High Performance, Cost Effective Design, ON Semiconductor's NCP1680 CrM PFC controller IC

For more details...

Supply Supervisor Delivers Glitch-Free Power-Up Down To 0.6 V And Lower, Maxim Integrated Products' MAX16162 nanoPower supervisor

For more details...

700-V, 2-W To 8-W Buck Regulators Suit A Range Of Home And Industrial Uses, Renesas Electronics' RAA2230XX buck regulators

For more details...

Offline Switcher ICs Incorporate Lossless Zero-Cross Detection And X-Capacitor Discharge, Power Integrations' LinkSwitch-TNZ family of switching power supply ICs

For more details...

High Efficiency DC-DC Converter Family Extends Output Power To 100 W, Silanna Semiconductor's SZDL3105B fully-integrated dc-dc converter

For more details...

Flyback Switcher ICs Enable Compact Mobile Chargers, Power Integrations' InnoSwitch4-CZ high-frequency, zero voltage switching (ZVS) flyback switcher ICs

For more details...

August 2021:

650-V GaN FET Features Integrated Driver And Enhanced Protection, Tagore Technology's TP44200NM 180-m Ω 650-V GaN E-HEMT device



Power IC News Sponsored by Efficient Power Conversion (EPC)

Active Clamp Flyback Controller Extends Power Density, Lowers No-Load Power For Adapters, Silanna Semiconductor's SZ1131 ACF controller

For more details...

Single-Stage Flyback Controllers Enable Cost-Effective Smart LED Drivers, Infineon Technologies' ICL88xx flyback controllers

For more details...

PMIC Delivers Complete Power Solution For New MPUs, Renesas Electronics' RAA215300 PMIC

For more details...

ZVS Chipset Enables Smaller Adapters At 100-W+ Power Levels, Dialog Semiconductor's digital zero voltage switching chipset includes the iW9801 primary-side controller and the iW709 secondary-side USB PD protocol IC

For more details...

Smart Power Stages Provide Controller-Agnostic Solution For Multiphase VR Regulators, Alpha and Omega Semiconductor's AOZ527xQI series smart power stages

For more details...

September 2021:

Isolated Current Sensors Feature High Speed And High Accuracy, Crocus Technology's CT430 and CT431 XtremeSense TMR devices

For more details...

Three-Phase MOSFET Gate Driver Maximizes Battery Life And Cuts
Component Count, TRINAMIC Motion Control's TMC6140-LA MOSFET gate driver
For more details...

PMICs Power Next-Gen Automotive AI SoCs, Dialog Semiconductor's DA914X-A automotive-grade, stepdown dc-dc converters

For more details...

Wireless Charger Reference Design For Automotive And Consumer Applications, Microchip Technology's Qi 1.3 wireless charging reference design For more details...

October 2021:



Power IC News Sponsored by Efficient Power Conversion (EPC)

NSREC Notes: Vendor Talks Highlight Advances In Power Devices, Packaging And Reference Designs For Space Applications

- Superjunction Technology And System Solutions, half-bridge eval boards, RIC7S113 rad-hard high- and low-side gate driver, and RIC74424 rad-hard dual noninverting low-side gate driver
- Many Voltage Regulator Options, Texas Instruments' TPS7H5001-SP radhard current-mode PWM controller; 3-A QMLV rad-hard TPS7H4002-SP, 18-A QMLV rad-hard TPS7H4001-SP and rad-tolerant TPS7H4010-SEP point-of-load converter ICs; TPS7H2201-SP smart load switch; TPS73801-SEP 1-A fast transient regulator; and TI's eval board with rad-hard power solution for Xilinx's Kintex UltraScale XQRKU060 FPGA
- More Progress In Plastic, ISL73033SEH low-side driver and 100-V GaN FET, ISL71001SLH/SEHM 6-A synchronous buck regulator and the ISL71610SLHM digital isolator with passive input, and Renesas' full QML-V qualified power solution for Microchip's RTG4 rad hard FPGA

For more details...

GaN Gate Driver Boosts Speed, Flexibility In Industrial And Home Automation, STMicroelectronics' STDRIVEG600 half-bridge gate driver For more details...

Tiny PMIC Charges Wearables And Hearables Faster, Analog Devices' MAX77659 single-inductor multiple output (SIMO) power management IC For more details...

November 2021:

Buck-Boost Converter Boasts Low I_Q And Supercapacitor Charging, Texas Instruments' TPS61094 buck-boost converter

For more details...

Flyback Switcher Chips With Built-In USB PD Controller Simplify Adapter Designs, Power Integrations' InnoSwitch3-PD offline switcher ICs

For more details...

GaN Power ICs Integrate Fast Overcurrent And Overtemperature Protection, Navitas Semiconductor's third-gen GaNFast power ICs



Power IC News Sponsored by Efficient Power Conversion (EPC)

USB-C Controller Eases Transition Away From Barrel Connectors, Infineon Technologies' EZ-PD BCR (Barrel Connector Replacement)

For more details...

Automotive LED Driver Provides 4.5-V to 75-V Input, Taiwan Semiconductor's TS19503 hysteretic-mode converter

For more details...

December 2021:

Multi-Cell Battery Front End ICs For High-Cell-Count, High-Voltage Systems, Renesas Electronics' RAA48920x battery front end ICs

For more details...

January 2020:

Photocouplers Shrink Designs For Industrial Automation And Solar Inverters, Renesas' RV1S92xxA and RV1S22xxA photocouplers

For more details...

PMIC Powers Application-Processor-Based Systems, STMicroelectronics' STPMIC1 power-management IC

For more details...

February 2020:

Highly Robust Gate Drivers Achieve AEC-Q100 Automotive Qualification, Power Integrations' SID1181KQ SCALE-iDriver gate driver

For more details...

PMIC For Automotive Surround View Camera Systems, Renesas Electronics' ISL78083 automotive camera PMIC

For more details...

Rad Hard Regulator Integrates Synchronous Buck And LDO For Satellites, Renesas Electronics' ISL70005SEH synchronous buck and low dropout regulator For more details...

March 2020:



Power IC News Sponsored by Efficient Power Conversion (EPC)

40-A Buck Converter IC Is Stackable Up to 160 A, Texas Instruments' TPS546D24A 40-A buck converter

For more details...

April 2020:

What We Missed At APEC: Silicon Carbide Marches On And Other Power Product News, Power Integrations' PowiGaN, SiC SCALE iDriver gate driver, BRD 1167/1267 bridge switch motor driver ICs; Rohm Semiconductor's BM6112 isolated gate driver; Infineon Technologies' IR3887M, IR3888M and IR3889M OptiMOS iPOL regulators with Fast COT; the FOD8334, NCD57000 and NCP51530 gate drivers; Texas Instruments' TPS546D24A 40-A stackable buck converter, the TPSM53604 36-V input, 4-A output buck power module, the UCC12050/40 500-mW isolated dcdc power supply; Efficient Power Conversion's EPC2152 80-V, 12.5-A power stage IC (driver plus eGaN FET half-bridge).

For more details...

Low-Cost ICs Provide Advanced Velocity Control Of Servo Motors, Performance Motion Devices' Juno Velocity Control ICs

For more details...

Synchronous-Rectification Controller Cuts BOM Costs For Power Adapters, STMicroelectronics' SRK1001 secondary-side synchronous-rectification controller For more details...

May 2020:

GaN Power Switch Increases Output Of Display PSUs To 75 W, Power Integrations' InnoSwitch3-MX isolated switcher IC family

For more details...

PMIC Cuts Solution Size, Extends Battery Life For Wearables And Hearables, Maxim Integrated Products' MAX77654 power management IC

For more details...

ACF Controllers Push Power Adapters To Higher Efficiency Using Silicon Only, Silanna Semiconductor's SZ1110 and SZ1130 active-clamp flyback controllers



Power IC News Sponsored by Efficient Power Conversion (EPC)

Flexible And Rugged Controller Simplifies Power For Smart Devices,
STMicroelectronics' VIPer222 controller for high-voltage converters

For more details...

June 2020:

Automotive LED Driver Ensures Stable Lighting During Battery Voltage Drops, ROHM Semiconductor's BD18336NUF-M LED driver IC

For more details...

Thermally Efficient PFC Controller IC Enables 100-W Adapters With No Heatsinks, Power Integrations' HiperPFS-4 ICs

For more details...

Outer Loop Control ICs For Brushless DC And DC Brush Motors, Performance Motion Devices' Juno Outer Loop Control ICs

For more details...

July 2020:

Voltage Regulator ICs Take Monolithic Integration to Another Level, Empower Semiconductor's EP70xx Integrated Voltage Regulators

For more details...

Configurable Mixed-Signal IC Adds High-Voltage Capability For Driving Motors, Dialog Semiconductor's SLG47105 HV PAK IC

For more details...

100-V Half-Bridge MOSFET Drivers Offer Ruggedness And High Performance, Renesas Electronics' HIP2211 and HIP2210 half-bridge MOSFET drivers

For more details...

Switcher IC Powers EV Subsystems Directly From 400-Vdc Bus, Power Integrations' AEC-Q100-qualified version of its LinkSwitch-TN2 switcher IC

For more details...

SiC-Based Three-Phase Driver Module Delivers 80 A Peak, Is Fully Integrated, Apex Microtechnology's SA310 three-phase driver



Power IC News Sponsored by Efficient Power Conversion (EPC)

Dual-Channel Buck Converters Feature Low EMI And Stackable Outputs, Analog Devices' LT8650S, LT8652S and LT8653S Silent Switcher converter ICs For more details...

August 2020:

Switcher IC Eases Operation From High-Voltage EV Batteries, Power Integrations' InnoSwitch3-AQ flyback switcher IC

For more details...

Versatile LED Driver Powers A Host of Automotive Applications, Taiwan Semiconductor's TS19501 dimmable LED driver

For more details...

High-Speed Current Sensor With High Accuracy Supports Faster Switching Frequencies, Allegro MicroSystems' ACS37002 Hall-effect current sensor

For more details...

Buck-Boost Chargers Deliver Greater Power Density For USB And Wireless Dual-Input Charging, Texas Instruments' BQ25790 and BQ25792 buck-boost battery charger ICs

For more details...

Interleaved PFC Digital Power Controller Features Mechanical Inrush Control, STMicroelectronics' STNRGPF02 two-channel interleaved PFC controller For more details...

September 2020:

Kit Speeds Design Of Rad Hard Power ICs And Other Mixed-Signal Chips, Apogee Semiconductor's TalRad Process Design Kit

For more details...

Highly Integrated Automotive-Grade Buck Converters Power In-Cabin Electronics, Dialog Semiconductor's DA913X-A dc-dc converters

For more details...

CMOS LED ICs Replace Legacy Bipolar Drivers, Taiwan Semiconductor's TSCR4 linear CMOS LED driver ICs



Power IC News Sponsored by Efficient Power Conversion (EPC)

October 2020:

Efficient GaN-Powered LED Drivers Target Smart-Lighting Designs, Power Integrations' LYT6078C LED driver IC

For more details...

Buck-Boost Converter With Ultra-Low Quiescent Current Powers Sensors And Other Devices, Renesas Electronics' ISL9122A buck-boost regulator
For more details...

Devices Copackage Silicon Half-Bridge Driver And 650-V GaN Transistors, STMicroelectronics' MasterGaN1 GaN half bridge with integrated drivers

For more details...

November 2020:

Power IC Shrinks Input Bulk Capacitor, Reduces Inrush Current, Power Integrations' MinE-CAP power IC

For more details...

Isolated IGBT/SiC MOSFET Gate Driver Benefits HEV/EV Applications, Texas Instruments' UCC5870-Q1 IGBT/SiC MOSFET gate driver

For more details...

80-V DC-DC Controllers Provide Extra Voltage Margin For Data Center, Telecom Applications, Renesas Electronics' ISL81801 and ISL81802 dc-dc controllers

For more details...

Automotive GaN FET Includes Driver, Protection And Active Power Management, Texas Instruments' LMG3522R030-Q1, LMG3525R030-Q1, LMG3422R050, LMG3425R050, LMG3422R030 and LMG3425R030 600-V and 650-V GaN FETs with integrated driver, protection and temperature reporting

For more details...

Modules Protect 5-V And Lower Designs From Overvoltage, Advanced Linear Devices' SABMBOVP family of overvoltage protection PCBs



Power IC News Sponsored by Efficient Power Conversion (EPC)

Automotive Gate Drivers Target 48-V Battery Systems, Allegro MicroSystems'AMT49100, AMT49101, AMT49502, A89503 and the A89500 three-phase and half-bridge gate drivers

For more details...

December 2020:

Automotive-Qualified High-Side Switch ICs With User-Definable Protection, ROHM's V2HD045EFU-C, BV2HC045EFU-C and BV2HD070EFU-C two-channel high-side switch ICs

For more details...

Buck Regulators Deliver High Efficiency, Small Size For USB-PD Applications, Silanna Semiconductor's SZPL3102A/3103A dc-dc converters

For more details...

Low-Noise Buck Converters With Ferrite-Bead Compensation Eliminate LDOs, Texas Instruments' TPS62912 and TPS62913 switching regulators
For more details...

LED Drivers Come In DFN With Side-Wettable Flanks, Nexperia's NCR32xPAS/NCR42xPAS LED driver ICs

For more details...

January 2019:

Receiver Chip Enables Wireless Charging In Smaller Devices, Energous' DA2223 four-port RF-to-dc wireless power chip

For more details...

Energy-Harvesting Embedded Controller May Eliminate Batteries In IoT Devices, Renesas' R7F0E embedded controller

For more details...

For more details...

February 2019:

Buck Regulators Deliver Compact Solutions For Powering Next-Gen Chipsets, Alpha and Omega Semiconductor's AOZ2367QI and AOZ2368QI EZBuck regulators

For more details...

March 2019:



Power IC News Sponsored by Efficient Power Conversion (EPC)

SIC-MOSFET Gate Driver Improves Efficiency And Safety, Power Integrations' SIC1182K SCALE-iDriver SiC-MOSFET gate driver

For more details...

PMIC Supports Thermal Energy Harvesting With Low-Voltage Startup, e-peas' AEM20940 power management IC

For more details...

April 2019:

6-A Buck Converter Achieves Tiny Size, High Efficiency Using Novel Architecture, Murata Manufacturing's MYMGA1R86RELC2RA dc-dc converter
For more details...

Gate Driver Uses AI To Bring Soft Switching Benefits To Inverters, Pre-Switch's 3-phase gate-drive solution

For more details...

Chipset Makes Flybacks More Efficient In Powering Displays, Power Integrations' InnoMux chipset

For more details...

Regulator Uses Less Power, Fewer Parts Than Conventional Cap-Drop Designs, Texas Instruments' TPS7A78 ac-dc linear regulator

For more details...

PMBus Power Modules Deliver High Power Density For FPGAs, DSPs, ASICs And Memory, Renesas Electronics' ISL8280M and ISL8282M hybrid digital dc-dc PMBus power modules

For more details...

1000-A Voltage Regulator Solution For Next-Gen AI And 5G Networking, Infineon Technologies' XDPE132G5C digital PWM multiphase controller and TDA21475 70-A power stage

For more details...

Regulated LED Driver For Automotive Applications, Taiwan Semiconductor's TSCR421 low-side constant-current regulator

For more details...

Isolated ICs Ensure Precise Current And Voltage Measurements, Silicon



Power IC News Sponsored by Efficient Power Conversion (EPC)

Labs' Si89xx family of isolated analog amplifiers, voltage sensors and delta-sigma modulator devices

For more details...

May 2019:

AC-DC Converter ICs Add Built-In 1700-V SiC MOSFET For More Compact Designs, ROHM Semiconductor's BM2SCQ12xT-LBZ series ac-dc converter ICs

For more details...

Rad-Tolerant PWM Controller And GaN FET Driver Come In Plastic
Packages For SmallSats, Renesas Electronics' ISL71043M PWM controller and
ISL71040M GaN FET driver

For more details...

Fully Integrated Active Clamp Flyback Controller Extends Benefits To 60-W AC Adapters, Silanna Semiconductor's SZ1105 active-clamp flyback controller

For more details...

Isolated Gate Drivers Integrate Sensing For IGBTs And SiC MOSFETs, Texas Instruments' UCC21710-Q1, UCC21732-Q1 and UCC21750 isolated gate drivers

For more details...

June 2019:

Programmable Multi-Channel LDO Packs High PSRR And Low Noise For Powering Smart Phone Cameras, Dialog Semiconductor's SLG51000 configurable mixed-signal integrated circuit

For more details...

Smart Class D Amplifier Delivers Louder, Richer Sound From Micro Speakers, Maxim Integrated Products' MAX98390 smart amplifier

For more details...

Six-Channel Controller Improves Precision And Performance For Stepper Motors, TRINAMIC Motion Control's TMCM-6214 motor controller and driver module

For more details...

July 2019:

80-V Buck LED Drivers Perform Highly Accurate Dimming, Infineon Technologies' ILD8150/E LED driver ICs



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

Switching Regulator Operates With Input Up To 61 V, STMicroelectronics' A7987 automotive switching regulator

For more details...

August 2019:

Offline Switcher ICs Adopt GaN For Higher Power Output And Efficiency, Power Integrations' INN3X79C and INN3X70C offline switcher ICs

For more details...

15-Mbps Photocouplers Withstand Harsh Industrial Applications, Renesas' RV1S9x60A photocouplers

For more details...

Regulator's Low Quiescent Current Extends Battery Life For IoT Devices, Texas Instruments' TPS62840 synchronous stepdown converter

For more details...

Configurable Mixed-Signal ICs Are Now Available For Automotive
Applications, Dialog Semiconductor's SLG46620-A Configurable Mixed-Signal IC
For more details...

September 2019:

Battery Management IC Maximizes Cell Life And Driving Range For Hybrids And EVs, Renesas Electronics' ISL78714 Li-ion battery management IC

For more details...

Buck-Boost Converter Extends Battery Life For IoT, Wearable, And Portable Devices, ROHM's BD83070GWL synchronous buck-boost converter IC

For more details...

X-Capacitor Discharge ICs Enable Faster Discharge, Power Integrations' CAPZero-3 X-capacitor discharge ICs

For more details...

Charger's Low Termination Current Increases Battery Capacity, Texas Instruments' BQ25619 switching battery charger IC



Power IC News Sponsored by Efficient Power Conversion (EPC)

ICs Simplify USB Type-C Power Delivery, Enable HostFlexing And PDBalancing, Microchip Technology's USB705x SmartHub devices with support for power delivery and UPD301A USB type-C PD controller

For more details...

Power Amplifier IC Delivers High Voltage And High Current, Apex Microtechnology's PA164 high-voltage operational amplifier

For more details...

October 2019:

Backlight LED Driver Is Compatible With 3- To 12-in. Vehicle LCD Panels, ROHM Semiconductor's BD81A76EFV-M LED driver IC

For more details...

Silent Motor Controller Enables Battery-Powered Stepper Motors To Run in Stealth Mode, TRINAMIC's TMC2300 motor driver IC

For more details...

POLs Increase Efficiency For Server, Networking And Telecom Applications, Infineon Technologies' OptiMOS IR3826(A)M integrated point-of-load regulators
For more details...

Tiny LDO Cuts Quiescent Current To <25 nA, Texas Instruments' TPS7A02 low-power low-dropout regulator

For more details...

November 2019:

PoE Products Ease Powering Of Pre-standard And 802.3bt-2018-Compliant PDs, Microchip Technology's IEEE 802.3bt-2018-compliant PoE injectors and midspans and power sourcing equipment (PSE) chipsets including the PD69208M, PD69204T4 and PD69208T4 PSE managers and PD69210 PoE controller For more details...

LED Drivers Support Dynamic Automotive Lighting From Front To Rear, Texas Instruments' TPS92520-Q1, TPS92682-Q1 and TPS929120-Q1 LED drivers For more details...

January 2018:



Power IC News Sponsored by Efficient Power Conversion (EPC)

Dual-Mode Battery Charge ICs Enable Simultaneous USB PD And Wireless Charging, ROHM's BD99954GW/MWV dual-input boost-buck charging ICs

For more details...

February 2018:

Rad-Hard GaN Devices Propel Space Power Supplies To Higher
Performance, Renesas Electronics' ISL7002xSEH GaN FETs and ISL70040SEH GaN
FET driver

For more details...

Fully Integrated Regulators Have PMBUS, SVID And PVID Functionality, Infineon Technologies' IR38x63/5 integrated point-of-load regulators

For more details...

roi more details...

Buck Regulator Delivers High Current With High Power Density For 24-V Inputs, Vicor's PI3325-00-LGIZ Cool-Power ZVS buck regulator

For more details...

March 2018:

Dynamically Configurable Offline Switcher IC Supports USB PD 3.0 + PPS, Power Integrations' InnoSwitch3-Pro configurable flyback switcher ICs For more details...

DC-DC Converter Runs Up To 10 Years On Coin-Cell Battery, ROHM Semiconductor's BD70522GUL dc-dc converter IC

For more details...

GaN Power ICs Make Adapters Smaller, Support Fast Charging, Navitas Semiconductor's 27-W and 65-W USB-PD reference designs

For more details...

Feature Rich PoE Chips Power IP Cameras And Other IoT Applications, Silicon Labs' Si3406x and Si3404 PoE powered device ICs

For more details...

April 2018:



Power IC News Sponsored by Efficient Power Conversion (EPC)

4-V to 42-V Input Buck Regulators Occupy 2.6-mm x 3.0-mm Footprint, Maxim Integrated Products' MAXM17532 and MAXM15462 dc-dc power modules For more details...

PWM Controller-MOSFETs Combo Enables Robust SMPS Designs Up To 43 W, Infineon Technologies' CoolSET

For more details...

Stepup Power Module Supports 48-V GPUs In Legacy 12-V Data Centers, Vicor's 2317 NBM power module

For more details...

LDO Packs High Performance In Tiny Footprint, STMicroelectronics' STLQ020 low-dropout voltage regulator

For more details...

May 2018:

Power Supply ICs Are Honed For High-Fidelity Audio, ROHM Semiconductor's BD372xx series linear regulators

For more details...

PMICs Boast Better Efficiency And Solution Size For Powering Processors, Renesas Electronics' ISL91302B, ISL91301A and ISL91301B power management ICs

For more details...

USB Type-C Data Line Protection IC Responds To Overvoltages In 15 ns, Kinetic Technologies' KTU1101 USB type-C port protector

For more details...

400-V Linear Regulators Deliver Constant LED Current In Compact Packages, Diodes' AL5890 linear constant-current regulator

For more details...

"Deep Sleep" Load Switch Prevents Battery Discharge During Product Shipment, GLF Integrated Power's GLF76321 IQSmart load switch IC

For more details...

June 2018:



Power IC News Sponsored by Efficient Power Conversion (EPC)

LDOs Boast 98-dB PSRR, Benefitting Imaging And Wireless Applications, ON Semiconductor's NCP16x and NCV816x series LDOs

For more details...

Apps, Vicor's 2317 NBM, a bidirectional nonisolated fixed-ratio converter

For more details...

July 2018:

Dual-Core Digital Signal Controller Eases Code Development By Separate Design Teams, Microchip Technology's dsPIC33CH digital signal controller

For more details...

Gate Driver Core Is Optimized For SiC MOSFET Modules, AgileSwitch's ASC1 SiC MOSFET gate driver core

For more details...

August 2018:

EMI-Compliant Buck Converters Speed Time To Market, Maxim Integrated Products' CISPR 22- and EN 55022-compliant Himalaya stepdown converters and power modules

For more details...

Resonant Controller With PFC Targets Power Supplies And LED Drivers, Infineon Technologies' ICL5102 resonant controller IC

For more details...

September 2018:

Half-Bridge Gate Driver IC Enhances Reliable Start-Up Operation, Infineon Technologies' IRS2007S 200-V half-bridge gate-driver IC

For more details...

PMICs Power Next-Generation Mobile Consumer Applications, Maxim Integrated Products' MAX77714 and MAX77752 power-management ICs
For more details...

Power Monitoring IC Measures AC And DC Power With High Accuracy, Microchip Technology's MCP39F511A dual-mode power monitoring IC



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

48-V Input Buck Regulators Offer BGA Option, Vicor's PI354x-00-BGIZ Cool-Power ZVS buck regulator

For more details...

October 2018:

Half H-Bridge Module Combines SiC MOSFETs with Integrated Gate Drive, Apex Microtechnology's SA110 SiC half H-bridge module

For more details...

Buck Converters Support Sensors And Cameras For Assisted Driving, ROHM Semiconductor's BD9S series automotive synchronous buck converters

For more details...

Buck-Boost Controllers Deliver True Bidirectional Power Conversion For Industrial Battery-Powered Applications, Renesas Electronics' ISL81601 and ISL81401 bidirectional four-switch synchronous buck-boost controllers

For more details...

Smart Switch Supports Fuel Savings In Automotive Power Trains, Infineon Technology's TLE9104SH smart quad-channel powertrain switch

USB Type-C And USB Power Delivery Controllers Have Fully Integrated Power Paths, Texas Instruments' TPS65987D and TPS65988 USB Type-C and USB PD controllers

For more details...

Digital Signal Controller Accelerates DSP Performance for Time-Critical Control Applications, Microchip Technology's dsPIC33CK digital signal controllers

For more details...

November 2018:

600-V GaN FET Power Stages Boost Performance For Applications Up To 10 kW, Texas Instruments' LMG34x family of 600-V GaN power stages

For more details...

Automotive Buck-Boost Chipset Meets Demands Of Start-Stop Vehicle Systems, Rohm's BD8P250MUF-C + BD90302NUF-C buck-boost chipset For more details...



Power IC News Sponsored by Efficient Power Conversion (EPC)

Rad Hard Current Sources For Sensing Subystems In Satellites, Renesas Electronics' ISL70591SEH and ISL70592SEH rad hard current sources

For more details...

Flyback Switcher ICs Bring High Efficiency To Three-Phase 480-V
Industrial Applications, Power Integrations' LinkSwitch-XT2 offline switcher ICs
For more details...

LDO's Miserly Iq Prolongs Battery Life While 1-mm² Footprint Saves Space, Microchip Technology's MCP1811 linear low dropout regulator (LDO)

For more details...

December 2018:

BLDC Motor Driver Eliminates Heatsinks, Slashes Certification Time For Appliance Designs, Power Integrations' BridgeSwitch half-bridge motor driver IC family

For more details...

Buck/Boost Regulator Simplifies Power Backup Using Supercaps, Maxim Integrated's MAX38888 reversible buck/boost regulator

For more details...

Half-Bridge Drivers Enhance Design Of 12-V to 48-V Automotive Hybrid Powertrains, Renesas Electronics' ISL784x4 100-V half-bridge drivers
For more details...

Isolated High-Side Power Switch Offers SPI And Many Other Features, STMicroelectronics' ISO8200AQ isolated octal high-side smart power switch For more details...

ORing FET Controller Protects Automotive Electrical Systems, Maxim Integrated's MAX16141 36-V ORing FET controller

For more details...

January 2017:

Power IC Model Library For PSpice Adds Automotive Test, From EMA Design Automation, ver.4.2 of AEi Systems' Power IC Model Library



Power IC News Sponsored by Efficient Power Conversion (EPC)

February 2017:

GaN Power ICs Enter The Market, Navitas Semiconductor's NV6131, NV6105 and NV6115 iDrive Gallium Nitride power ICs

For more details...

Battery Charger Extends Backup Battery Life In Automotive eCall Systems, Intersil's ISL78693 3.6-V battery charger IC

For more details...

Motor Driver IC Requires Only Four External Components, Allegro MicroSystems Europe's A3916 motor driver IC

For more details...

Intelligent Power Modules Offer More Packages, More Features For Appliances, STMicroelectronics' SLLIMM nano series of Intelligent Power Modules for motor drives

For more details...

March 2017:

Inductorless Converter Delivers 10 A With Over 98% Efficiency, Dialog Semiconductor's DA9313 switched-capacitor dc-dc converter

For more details...

48-V Buck Regulator Delivers 20 A In Less Than 740-mm² Footprint, Vicor's PI3525-00-LGIZ 48-V Cool-Power ZVS buck regulator

For more details...

April 2017:

Buck-Boost Controller Is Tailored To Dual Automotive Battery Systems, Texas Instruments' LM5170-Q1 multiphase bidirectional dc-dc current controller. For more details...

Power IC Combines Fifth-Gen Flyback Controller With Latest MOSFETs, Infineon Technologies's Gen5 CoolSET power ICs

For more details...

May 2017:



Power IC News Sponsored by Efficient Power Conversion (EPC)

Buck Converter Optimizes DC Fan Motor Control For Refrigerators, Rohm's BD9227F buck converter for dc fan motors

For more details...

100-V Power Stage Module Satisfies Cloud Infrastructure Requirements, ON Semiconductor's FDMF8811 100-V bridge power stage module

For more details...

10-A Power Modules Provide Complete Stepdown Solutions In Tiny Footprints, Texas Instruments' TPSM84A21 and TPSM84A22 stepdown power modules

For more details...

PMIC Increases Power Efficiency For Digital SLR Cameras, Dialog Semiconductor's DA6102 integrated power management IC

For more details...

LED Driver ICs Combine High Efficiency, Small Size, Peregrine Semiconductor's ARC3C family of LED driver ICs

For more details...

June 2017:

A New Power Management Tool For Portable Product Designers, Silego Technology's SLG46580 GreenPAK programmable mixed-signal IC

For more details...

Power Management IC Is 91% Efficient, Reduces Space Needs 40%, Intersil's ISL91211 PMIC

For more details...

Stepdown Converters Cut Power Dissipation And Size For Industrial Applications, Maxim Integrated's MAX17572 and MAX17574 Himalaya synchronous stepdown dc-dc converters

For more details...

Synchronous Rectifier Controller Eases Power System Design, ON Semiconductor's FAN6248 synchronous rectifier controller for LLC resonant converters

For more details...

July 2017:



Power IC News Sponsored by Efficient Power Conversion (EPC)

GaN Power ICs Enable Smallest Power Adapters For Ultra-Thin TVs And Laptops, Navitas Semiconductor's 150-W ac-dc reference design using GaN power ICs

For more details...

August 2017:

PMICs Increase Battery Life In "Hearables", Maxim
Integrated's MAX77650/MAX77651 power management ICs (PMICs)

For more details...

Smart Gate Driver Photocoupler Features Improved Desaturation Sensing, Toshiba America Electronic Components' TLP5214A smart gate driver photocoupler For more details...

September 2017:

Offline Flyback Switcher ICs Deliver 94% Efficiency Over Line And Load, Power Integrations' InnoSwitch3 family of offline flyback switcher ICs

For more details...

October 2017:

Power Amplifier ICs Deliver High Voltage, High Output Current In Compact Package, Apex Microtechnology's PA164 and PA165 power amplifiers

For more details...

Buck Converter IC Delivers Extreme Voltage Stepdown For Mild Hyrid Vehicles, ROHM Semiconductor's BD9V100MUF-C dc-dc converter IC

For more details...

IC Boosts Power Measurement Accuracy In Windows 10 Devices, Microchip Technology's PAC1934 power and energy monitoring chip

For more details...

40-A Buck Converter Chip Features Novel Control Topology, Texas Instruments' TPS543C20 synchronous buck converter IC



Power IC News Sponsored by Efficient Power Conversion (EPC)

November 2017:

Power ICs Offer Many Options For Expanded Power Delivery Via USB Type C

- USB-C Buck-Boost Regulator Enables Bidirectional Voltage Regulation For Tablets, Ultrabooks And Power Banks, Intersil's ISL95338 USB-C buck-boost regulator
- Reference Design Simplifies Development Of USB Type-C Rechargeable Battery Packs, Silicon Labs' USB type-C rechargeable battery pack reference design
- Buck-Boost Battery Charge Controllers Maximize Input Power For 1S To 4S Applications, Texas Instruments' bq25703A and bq25700A synchronous charge controllers
- Eval Boards Ease Development Of USB PD Applications From Mobile To 100 W, Rohm's USB power delivery (USBPD) compatible transmitter/receiver evaluation boards
- Robust USB Type-C Controllers With Internal Protection Save Space And Enhance Safety, STMicroelectronics' STUSB4710 and STUSB1602 USB Type-C-certified port-controller ICs
- USB-PD Interface IC Is Optimized For Power Supplies, Dialog Semiconductor's iW656 state-machine-based USB Power Delivery interface IC.
- Power Converter ICs Complete Smartphone Direct Charging Solution, Dialog Semiconductor's DA9318 series of power converter ICs (can be combined with the iW656 listed above)
- 18-W USB PD Reference Design Delivers High Efficiency And Compact Footprint, Power Integrations' DER-567 USB PD compliant, ac-dc power converter reference design
- Complete USB Type-C Solutions For Rapid Charging And High-Speed Data Transfer, ON Semiconductor's portfolio of solutions for the implementation of USB type-C applications includes intelligent charge controllers, port control ICs, data multiplexers, integrated re-drivers, high voltage protection switches, and ESD protection components
- USB-C Buck-Boost Battery Chargers Add 5-V To 20-V Reverse Boost For USB On-The-Go Charging, Intersil's ISL9238 and ISL9238A single-chip battery chargers
- USB-C Buck-Boost Battery Charger Reduces BOM Costs, Intersil's single-chip ISL9237 Narrow VDC battery charger



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

Power Supply Sequencers Are Rad Hard, Intersil's ISL70321SEH and ISL73321SEH quad power supply sequencers

For more details...

Digital POL Generates Five Outputs In Compact, Infineon Technologies' IRPS5401 digital point-of-load regulator

For more details...

Chip Enables Faster Wireless Charging Of Smartphones And Tablets, STMicroelectronics' STWBC-EP wireless-charging controllers

For more details...

December 2017:

5-A Peak-Current Gate Drivers Reduce System Complexity And Cost, Power Integrations' SID1102K gate driver IC

For more details...

Nanopower PMICs Extend Battery Life For IoT Products, Dialog Semiconductor's DA9230 and DA9231 nanopower PMICs

For more details...

January 2016:

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

Monolithic Sync Buck Regulator Operates Efficiently Up to 18 V, Alpha and Omega Semiconductor's AOZ3101synchronous buck regulator.

For more details...

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

For more details...

February 2016:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

Reference Design For Medium-Power Wireless Power Receiver Is Qi-Certified, Reference design using the BD57015GW wireless power receiver IC For more details...

March 2016:

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

For more details...

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

For more details...

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

For more details...

April 2016:

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

For more details...

June 2016:

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

For more details...

January 2015:

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

For more details...

February 2015:



Power IC News Sponsored by Efficient Power Conversion (EPC)

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

For more details...

March 2015:

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

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

For more details...

April 2015:

Top Five Products And Demos Seen at APEC 2015

- Altera's Enpirion EM1130A 30-A Point-Of-Load Converter
- Intersil's ISL8272M 50-A Point-Of-Load Converter

For more details...

May 2015:

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

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

For more details...

June 2015:

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

For more details...

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

July 2015:

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

For more details...

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

For more details...

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

For more details...

August 2015:

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

For more details...

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

For more details...

September 2015:

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

For more details...

October 2015:

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

For more details...

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

November 2015:

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

For more details...

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

For more details...

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

For more details...

December 2015:

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

For more details...

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

For more details...

15-W Wireless Power Receiver IC Complies With Qi V1.2, Toshiba America Electronic Components' TC7766WBG wireless power receiver

For more details...

January 2014:

380-V Input Bus Converter Raises Efficiency And Power Density To Benefit HVDC Power Distribution, Vicor's VI Chip bus converter module built in the ChiP platform

For more details...

February 2014:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

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

For more details...

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

For more details...

March 2014:

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

For more details...

VTM Current Multiplier In New ChiP Packaging Will Support VR12.5 Applications, Vicor's VRM solution compliant with Intel's VR12.5 voltage regulation specification

For more details...

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

For more details...

April 2014:

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

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

For more details...

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

For more details...



Power IC News Sponsored by Efficient Power Conversion (EPC)

May 2014:

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

For more details...

July 2014:

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

For more details...

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

For more details...

August 2014:

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

For more details...

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

For more details...

September 2014:

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

For more details...

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

For more details...

November 2014:



Power IC News Sponsored by Efficient Power Conversion (EPC)

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

For more details...

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

For more details...

December 2014:

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

January 2013:

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

For more details...

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

For more details...

February 2013:

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

For more details...

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

For more details...

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

March 2013:

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

For more details...

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

For more details...

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

For more details...

Synchronous Rectifier Controller With Sync Function Simplifies SMPS

Designs, International Rectifier's IR1169 high-speed synchronous rectifier

controller

For more details...

April 2013:

User-Defined Power Modules Take Configurability To A New Level, Vicor's User-Defined, VI Chip PRM Modules

For more details...

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

<u>For more details...</u>

Buck Converter Delivers 25 A From A 5-mm x 6-mm PQFN, International Rectifier's IR3847 Gen3 SupIRBuck voltage regulator

For more details...

May 2013:

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

For more details...

Fast-Switching Solid-State Relays Consume Ultra-Low Power, Electronic



Power IC News Sponsored by Efficient Power Conversion (EPC)

Design & Research's μR2M and μD2M series solid-state relays

For more details...

June 2013:

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

For more details...

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

For more details...

July 2013:

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

For more details...

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

For more details...

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

For more details...

August 2013:

Controller In SOT-23 Shrinks Boost PFC Circuits, International Rectifier's IRS2505L PFC boost IC

For more details...

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

October 2013:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

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

For more details...

November 2013:

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

For more details

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

For more details...

December 2013:

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

For more details...

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

For more details...

January 2012:

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

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

February 2012:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

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

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

For more details...

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

For more details...

DC-DC Converters Deliver 334 W/in³ For Industrial And Military Applications, The Picor Cool-Power PI3106 isolated dc-dc converter from Vicor
For more details...

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

For more details...

March 2012:

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

For more details...

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

For more details...

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

For more details...

April 2012:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

May 2012:

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

For more details...

June 2012:

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

For more details...

July 2012:

Zero-Voltage Switching Boosts POL Efficiency To 98%, Vicor's Picor PI33XX Cool-Power ZVS buck regulator series

For more details...

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

For more details...

August 2012:

Rad-Hard Power Converters Ride Intermediate Bus Into Space

Monolithic Point-of-Load Regulators (POLs)

- Texas Instruments' TPS50601-SP 6-A POL for harsh environments
- Intersil's ISL70001 and ISL70002 6-A and 12-A SEE immune synchronous buck regulators
- Intersil's ISL75051SRH radiation-tolerant ultra-low dropout regulator
- Peregrine Semiconductor's PE9915x family of rad-hard buck regulators with integrated switches

For more details...

September 2012:



Power IC News Sponsored by Efficient Power Conversion (EPC)

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

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

For more details...

October 2012:

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

For more details...

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

For more details...

December 2012:

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

For more details...

January 2011:

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

For more details...

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

For more details...

March 2011:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

For more details...

April 2011:

Driver IC Simplifies Design, Increases Efficiency For High-Power LED lighting, International Rectifier's IRS2548D switched-mode power supply control IC with integrated PFC control

For more details...

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

For more details...

May 2011:

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

For more details...

Chip Integrates PFC And Lamp Ballast Control In SO-8 Package, International Rectifier's Combo8 IRS2580DS PFC + Half-Bridge Ballast IC For more details...

August 2011:

High-Temperature Components For Power Design

- Automotive-Grade Boost Controller Boasts Wide Input Range, ON Semiconductor's NCV8871 nonsynchronous boost controller
- Forward Converter Chipset Is Specified Over -55°C to 125°C Range, Linear Technology's LT1952/-1 single-switch forward controller, LTC3900 synchronous rectifier driver, and LT4430 secondary-side optodriver

 For more details...

October 2011:

Digital Power Products

- Digital Controller Provides Real-Time Adaptive Loop Compensation,
 Powervation's PV3012 dual-phase digital dc-dc controller
- Analog Buck Controllers Feature PMBus Interface, Texas Instruments' TPS40400 2-MHz single-channel controller and TPS40422 dual-channel controller



Power IC News Sponsored by Efficient Power Conversion (EPC)

- Digital Power Controllers Deliver High Efficiency, International Rectifier's IR3541, IR3536, and IR3538 multiphase digital PWM controllers
- POL Regulators Offer Vertical Mount For Space-Critical Applications, Ericsson's BMR4622002 and BMR4632002 3E digital point-of-load voltage regulators
- Buck Regulators Deliver Highly Integrated Designs, Summit Microelectronics' SMB220 and SMB221 10-A and 20-A digitally programmable buck regulators
- Multi-Rail Digital PMUs Pack Numerous Features, Akros Silicon's Energy\$ense family of multi-output, digital dc-dc power management unit ICs

For more details...

February 2010:

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

For more details...

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

For more details...

April 2010:

Control IC Simplifies HID Ballast Design, International Rectifier's IRS2573D HID ballast controller IC

For more details...

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

For more details...

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

For more details...

May 2010:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

June 2010:

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

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

For more details...

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

For more details...

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

For more details...

July 2010:

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

For more details...

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

For more details...

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

For more details...

August 2010:

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

For more details...

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

September 2010:

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

For more details...

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

For more details...

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

For more details...

October 2010:

Point-Of-Load Regulators Extend Functionality and Performance, International Rectifier's IR3837M, IR3838M and IR3839M SupIRBuck point-of-load voltage regulator

For more details...

November 2010:

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

For more details...

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

For more details...

October 2009:

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



Power IC News Sponsored by Efficient Power Conversion (EPC)

November 2009:

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

For more details...

December 2009:

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

For more details...

Controller Eases Compliance With Power Supply Efficiency Standards, International Rectifier's IR11672A synchronous rectification controller For more details...

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