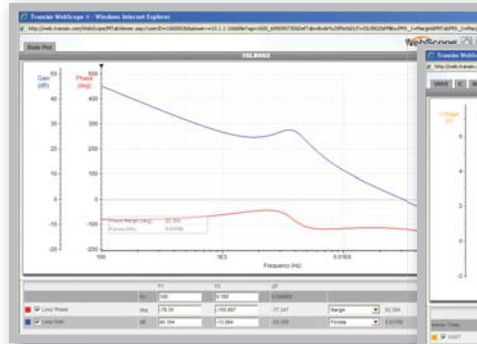




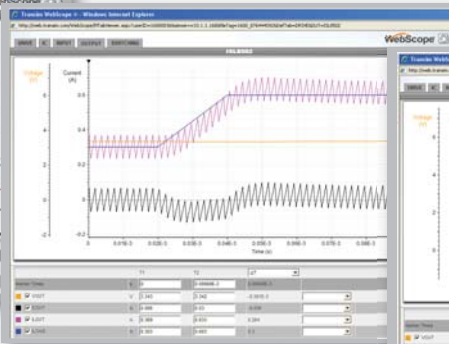
Power Design Made Easy with iSim™

iSim Online Design Simulation Tool

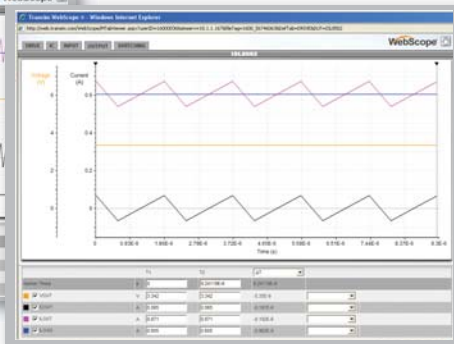
www.intersil.com/isim



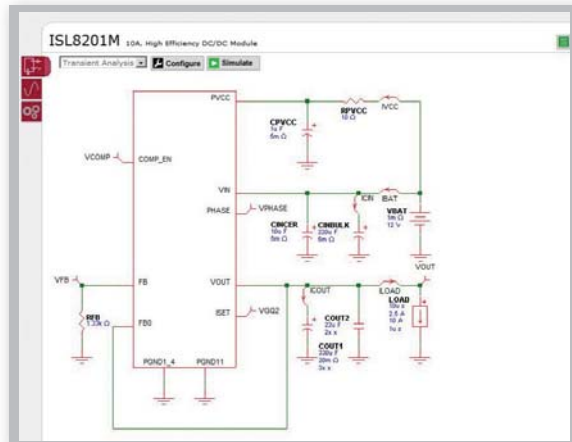
Plot the Frequency Response



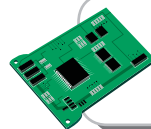
Generate Transient Graphs



Perform a Steady State Analysis



Easily Generate Schematics with Intersil's Parts



All power ICs from Intersil are supported with eval boards and samples.



Intersil Power Modules

Everything you need in one package



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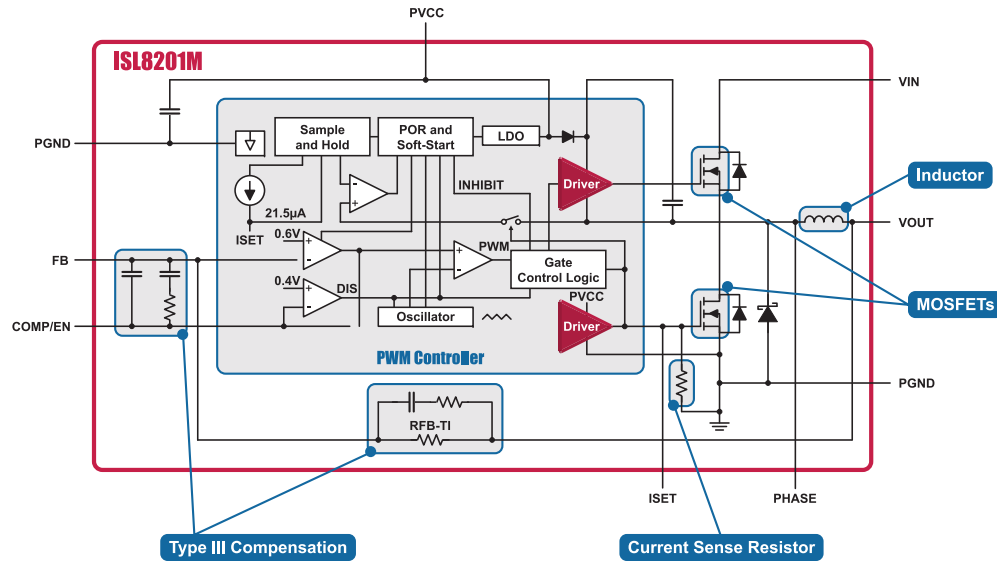


Highly-Integrated Power Conversion Module Saves Space, Reduces Cost and Simplifies Design

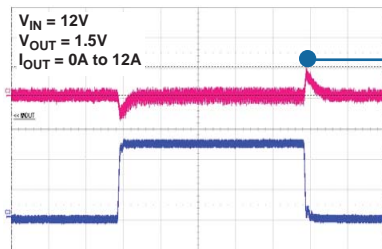
ISL8201M is an off-the-shelf power solution that eliminates up to 41 components - all in one tiny, thermally-enhanced tiny QFN package.

Key Applications

- Network storage
- 2G & 3G basestations
- WiMAX basestations
- Industrial printers
- Industrial ultrasound
- Industrial TV
- WLAN access points
- Datacom systems
- Storage area networks
- Data acquisition systems
- ATCA chassis
- Aerospace communications equipment



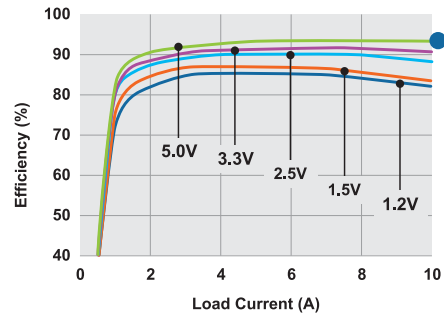
Fast Transient Response



1.5V Transient Response

71mV Peak
Electrical performance and tight output voltage range to meet your load requirements.

High Efficiency



Efficiency vs Load Current (5VIN)

95% Peak Efficiency
Delivers 10A output current with up to 95% efficiency; no need for heat sinks or airflow to meet power specs.

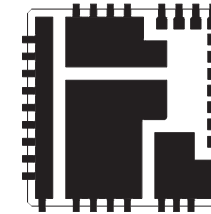
Thermally-Enhanced QFN Package

Best-in-Class Thermal Performance

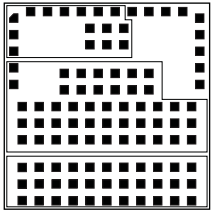


Thermal molding compound allows for even heat distribution
Large copper islands (V_{IN} , V_{OUT} , PHASE, GND) optimize heat dissipation
Theta JA = 13°C/W (15% better than LGA package)
Operates at full 10A load up to 80°C (LGA's full 10A load is at 40°C)

Easier Design



QFN vs LGA
All QFN pins are accessible for testing and probing
QFN is easier to solder and greatly reduces "lift off"
QFN better endures shock and vibration



Cost Effective

Reduces Design Time
Complete, ready-to-design solution includes PWM controller, drivers, MOSFETs and most passive components



Lowers Cost
Significantly reduces BOM
Saves Space
Up to 41 components integrated into each power module

Intersil Power Module Family

Part Number	V_{IN} (range) (V)	V_{OUT} (range) (V)	I_{OUT} (A)	Current Share	Multi-phase	P_{GOOD} /Enable	Ambient Temp Range (°C)	Load Fault Protection	Package (mm)	Status
ISL8200M	3 - 20	0.6 - 5	10	Y	Y	Y	-40 to +85	Y	22 Ld QFN (15 x 15 x 2.2)	Q110
ISL8201M	1 - 20	0.6 - 5	10	N	N	Y	-40 to +85	Y	15 Ld QFN (15 x 15 x 3.5)	Released
ISL8204M*	1 - 20	0.6 - 5	4	N	N	Y	-40 to +85	Y	15 Ld QFN (15 x 15 x 3.5)	Q409
ISL8206M*	1 - 20	0.6 - 5	6	N	N	Y	-40 to +85	Y	15 Ld QFN (15 x 15 x 3.5)	Q409

* Lower output current pin-for-pin compatible to the ISL8201MIRZ.