

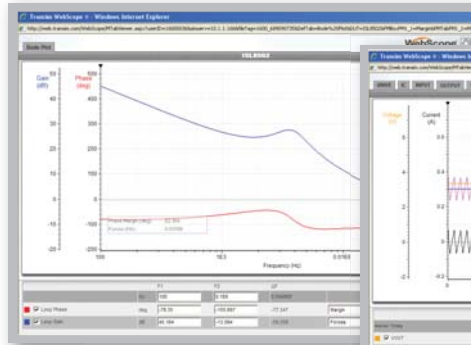


Power Design Made Easy with iSim™

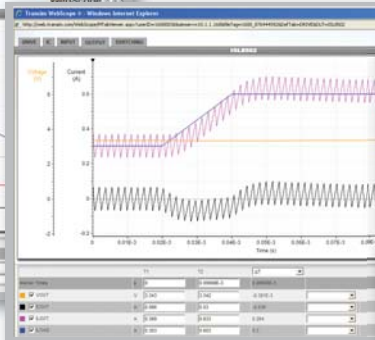
iSim™ Online Design Simulation Tool

www.intersil.com/isim

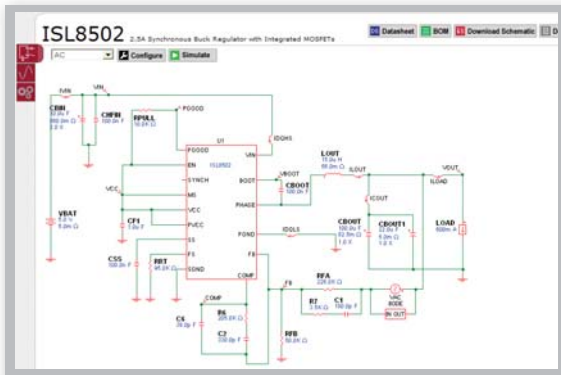
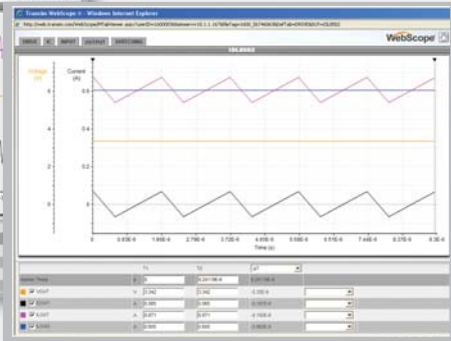
Plot the Frequency Response



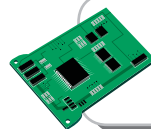
Generate Transient Graphs



Perform a Steady State Analysis



Easily Generate Schematics with Intersil's Parts



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



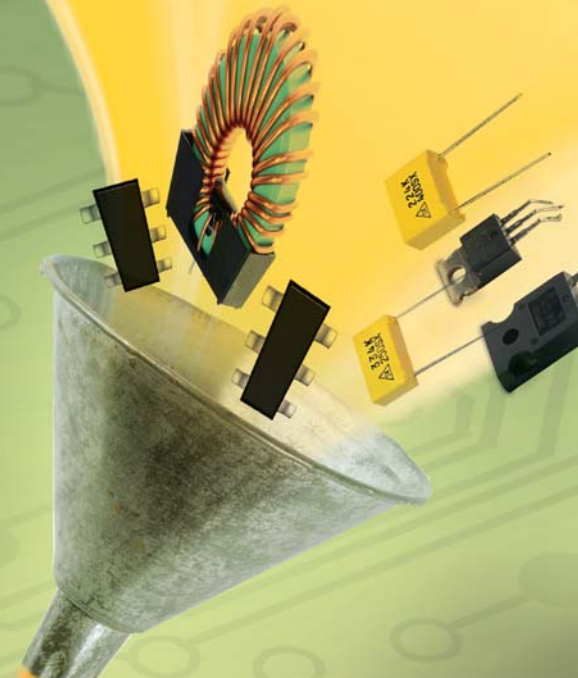
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Featured Integrated Power Solutions

Compact, Efficient, Flexible & Feature Rich



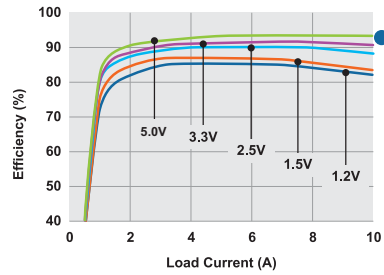
the EVOLUTION of ANALOG™

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

ISL8201M is an off-the-shelf power solution featuring a PWM controller, drivers, MOSFETs and all passive components in a thermally-enhanced tiny QFN package.

Excellent Thermal Performance

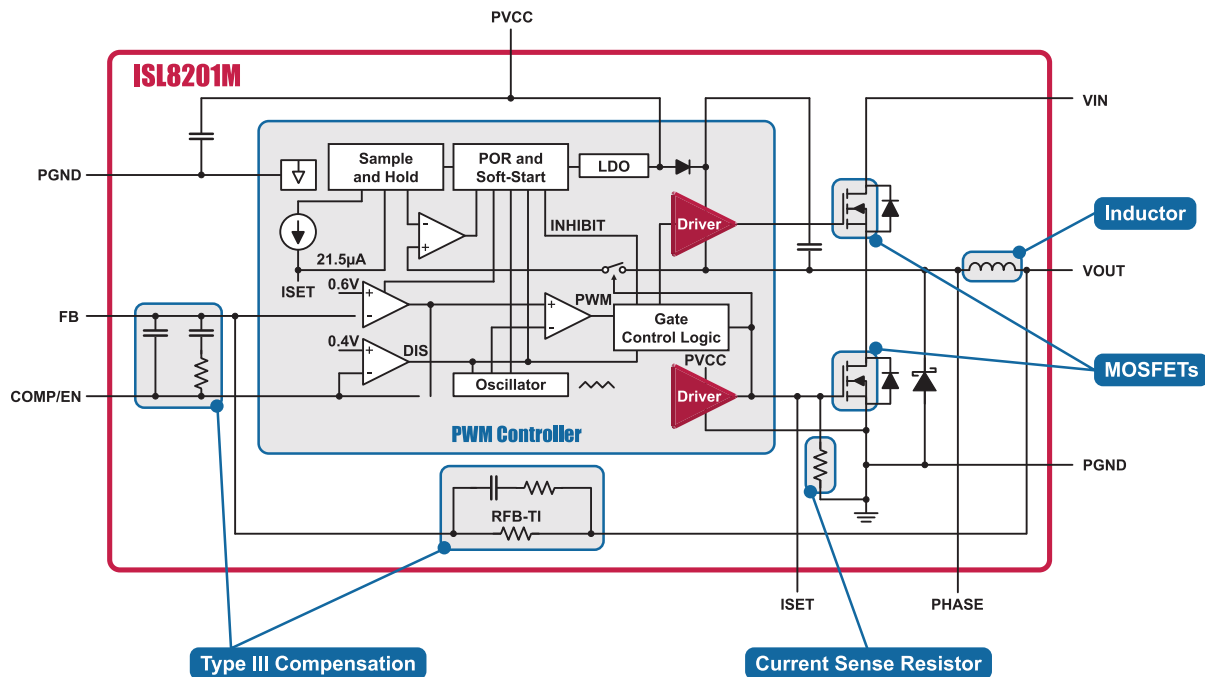
Optimizes heat transfer, eliminates heat sinks and improved reliability of end products



95% Peak Efficiency

Delivers 10A output current with up to 95% efficiency without the need for heat sinks or airflow to meet power specs

ISL8201M Efficiency vs Load Current (5VIN)



Typical Integrated Power Solutions

Part No.	V _{IN} (range) (V)	V _{OUT} (range) (V)	Rated O/P Current (A)	Typ. Dropout Voltage (mV)	PSRR (dB)	Features	Package (mm)
ISL9021	1.5 - 5.5	0.8 - 3.3	0.25	150	75	Single	4 Ball CSP (1.2x1) also available in μ TDFN (1.6x1.6)
ISL9016	1.8 - 6.5	0.8 - 3.3	0.15	120	75	Dual	6 Ld μ TDFN (1.6x1.6)
ISL80101/02/03	2.25 - 6	0.8 - 5	1/2/3	120	60	PGOOD, Enable, Adj.Soft-Start	10 Ld DFN (3x3)

Part No.	V _{IN} (range) (V)	V _{OUT} (range) (V)	Rated O/P Current (A)	F _{SW} (MHz)	Peak Eff. (%)	Features	Package (mm)
Synchronous Buck - Single							
ISL9104/A	2.7 - 6	0.8 - V _{IN}	0.5	4.3	93	PFM/PWM, Enable	6 Ld μ TDFN (1.6x1.6)
ISL8009A	2.7 - 5.5	0.8 - V _{IN}	1.5	1.6	95	PFM/PWM, POR, Enable	8 Ld DFN (2x3)
ISL8012	2.7 - 5.5	0.8 - V _{IN}	2	1	95	PFM/PWM, PGOOD, Enable	10 Ld DFN (3x3)
ISL8013/14	2.7 - 5.5	0.8 - V _{IN}	3/4	1	96	Sync, PFM/PWM, PGOOD, Enable	16 Ld QFN (4x4)
ISL8502	4.5 - 14	0.6 - V _{IN}	2	0.5 to 1.2	92	Sync, PGOOD, Enable, Adj. Soft-Start, Programmable F _{SW}	24 Ld QFN (4x4)
ZL2106	4.5 - 14	0.6 - 5	6	0.2 to 1	89	PMBus Compliant Fully-Programmable Digital Control	32 Ld QFN (6x6)
Synchronous Buck - Dual							
ISL8088	2.7 - 5.5	0.6 - V _{IN}	0.8/0.8	2.25	95	Sync, PFM/PWM, PGOOD, Enable	10 Ld DFN (3x3)
ISL65426	3 - 5.5	1 - 4	1/5, 2/4, 3/3	1	94	Programmable Power Blocks (I _{OUT}), PGOOD, Enable	50 Ld QFN (5x10)

Part No.	V _{IN} (range) (V)	V _{OUT} (range) (V)	Rated O/P Current (A)	F _{SW} (MHz)	Peak Eff. (%)	Features	Package (mm)
ISL8201M	4.5 - 14.4	0.6 - 5	10	0.6	95	Integrated Magnetics, High Integration, Tight Accuracy, Up to 20V Operation with Ext Bias	15 Ld QFN (15x15x3.5)

Find the full selection guide of Integrated Power Solutions at www.intersil.com/power