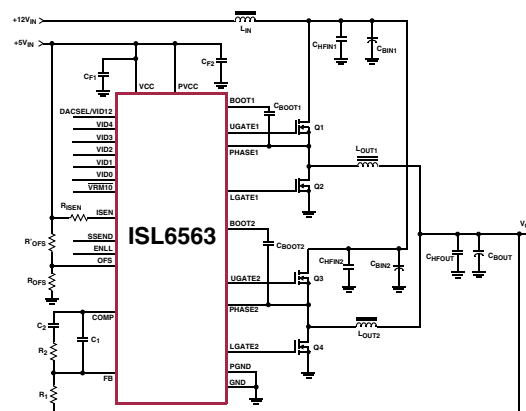


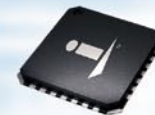
Performance and Mainstream

High Performance 32- & 64-Bit (Server)						
CPU Device		V _{CORE} Power Solutions		Intel Chipset	Chipset Power Solutions	
		PWM Controller	FET Driver		PWM Controller	FET Driver
Dual Pentium®III (32)						
		ISL6552; ISL6553	ISL6605/08; ISL6612	E7501; E7505	ISL6506	ISL6605/08; ISL6612
Itanium® 2 (64)						
		ISL6554/ ISL6590	ISL6605/08; ISL6612; ISL6580	8870	ISL6505	ISL6605/08; ISL6612
Xeon® (32)						
	VR10.0	ISL6556; ISL6561; ISL6563; ISL6590	ISL6605/08; ISL6612; ISL6580	E7501; E7505	ISL6506	ISL6605/08; ISL6612
	VR10.X	ISL6556; ISL6561; ISL6563; ISL6590	ISL6605/08; ISL6612; ISL6580	E7501; E7505	ISL6506	ISL6605/08; ISL6612
Mainstream & Scalable 32-Bit						
Pentium®II						
		HIP6004; EL7571	HIP6004	440BX/LX/ZX	HIP6016/18/19	No drivers
Pentium®III						
	VR8.4	HIP6021/20/19/18; HIP6004; HIP6303	ISL6605/08; ISL6612	820	HIP6501; HIP6503	No drivers
Celeron®						
	VR8.5	HIP6021; ISL6524	No drivers, single-phase	810/E;815/E	HIP6500/01/02/03	No drivers, single-phase
	VR9.0	HIP6301/2/11; ISL6556; ISL6563	ISL6605/08; ISL6612, ISL6613, ISL6614	845	ISL6504/A; HIP6503	No drivers, single-phase
Pentium® 4						
	VR9.0	HIP6301/2/11; ISL6556; ISL6563, ISL6565	ISL6605/08; ISL6612, ISL6613, ISL6614	845Gx; ICH4	ISL6504/A; HIP6503	No drivers, single-phase
	VR10.0	ISL6556; ISL6561; ISL6563; ISL6565, ISL6566, ISL6590	ISL6605/08; ISL6612, ISL6613, ISL6614	ICH5; 848; 865; 875; 910GL	ISL6505	No drivers, single-phase
	VR10.X	ISL6556; ISL6561; ISL6563; ISL6565, ISL6566, ISL6590	ISL6605/08; ISL6612, ISL6613, ISL6614	ICH6; 925; 915; 910	ISL6506	ISL6605/08; ISL6612, ISL6613, ISL6614
Low Power & Mobile 32-Bit						
Centrino™ Mobile						
		ISL6216; ISL6217; ISL6218	ISL6207 (for ISL6216)	855PM/GM	ISL6227; ISL6232	-
Pentium® 4 -M						
		ISL6215	ISL6207	845MP; 853GM	ISL6227; ISL6232	-
Mobile Pentium® 4						
		ISL6247	ISL6207	852PM/GME	ISL6227; ISL6232	-
Mobile Celeron®						
		ISL6216; ISL6217; ISL6218	ISL6207 (for ISL6216)	852PM/GM/GME	ISL6227; ISL6232	-

Handheld 32-Bit	
CPU Device	V _{CORE} Intersil Solutions
	PWM with FETs
Xscale®	
	ISL6271
Xscale®	
	EL7531
Xscale®	
	EL7536



Typical V_{CORE} Regulator Application



Intersil's Power Supply Solutions

Multiphase Controllers								
Device	V _{IN} (min) (V)	V _{IN} (max) (V)	V _{OUT} (min) (V)	V _{OUT} (max) (V)	I _{OUT} (max) (A)	V _{BIAS} (V)	VRM	Pkg/Pin
VID VOLTAGE SET								
HIP6301	3	12	1.1	1.85	≥120	5	9	SOIC-20
HIP6301V	3	12	1.1	1.85	≥120	5	9	SOIC-20
HIP6302	3	12	1.1	1.85	≥60	5	9	SOIC-16
HIP6302V	3	12	1.1	1.85	≥60	5	9	SOIC-20
HIP6303	3	12	1.3	2.05	≥120	5	8.4	SOIC-20
HIP6304	3	12	1.3	2.05	≥60	5	8.4	SOIC-16
HIP6311	3	12	1.1	1.85	≥120	5	9	SOIC-20
HIP6311A	3	12	1.1	1.85	≥120	5	9	SOIC-20
ISL6552	3	12	1.05	1.825	≥120	5	8.5	SOIC-20
ISL6553	3	12	1.05	1.825	≥60	5	8.5	SOIC-16
ISL6554	3	12	0.95	1.7	≥60	5	8.5	SOIC-20
ISL6556A	3	12	0.8375	1.6	≥120	5, 12	10	SOIC-28, QFN-32
ISL6556B	3	12	0.8375	1.6	≥120	5, 12	10	SOIC-28, QFN-32
ISL6557	3	12	1.1	1.85	≥120	5	9	SOIC-24
ISL6557A	3	12	0.88	1.55	≥120	5	NA	SOIC-24
ISL6559	3	12	0.83	1.55	≥120	5, 12	NA	SOIC-28, QFN-32
ISL6560	3	12	1.1	1.85	≥60	5	9	SOIC-16
ISL6561	3	12	0.8375	1.65	≥120	5, 12	10	QFN-40
ISL6562	3	12	1.05	1.825	≥60	5	8.5	SOIC-16
ISL6563	3	12	0.825	1.85	≥60	5	9, 10	QFN-24
ISL6569	3	12	0.8	1.55	≥60	5, 12	NA	SOIC-24, QFN-32
ISL6569A	3	12	0.8	1.55	≥60	5, 12	NA	SOIC-24, QFN-32
ISL6215	3	25	License Required for Additional Data					
ISL6216	3	25	License Required for Additional Data					
ISL6219A	3	25	1.1	1.85	60	NA		SSOP
ISL6223	3	25	0.925	2	28	7	NA	SSOP-20
ISL6247	3	25	License Required for Additional Data					
ISL6244	3	25	0.8	1.5	NA	5	NA	QFN-32
ISL6217	3	25	License Required for Additional Data					
RESISTOR VOLTAGE SET								
ISL6558	1.2V	12	0.8	5	≥120	5	NA	SOIC-16, QFN-20

Intersil's Endura DDR Memory Power Solutions			
Part Number	# of Outputs	V _{IN}	Pkg/Pin
ISL6530/31	3 (Dual PWM+Ref)	5V	SOIC-24, QFN-32
ISL6225	2 (Dual PWM)	3.3V to 24V	SOIC-16
ISL6444	3 (Dual PWM+Ref)	5V	SSOP-28
ISL6520A	1 (PWM)	5V	SOIC-8
ISL6522/A	1 (PWM)	5V to 12V	SOIC-14, QFN-16, TSSOP-14
ISL6532/A	4 (PWM+3LDOs)	2.5V to 5V	QFN-20/28
ISL6534	3 (Dual PWM+LDO)	3.3V to 12V	TSSOP-24, QFN-32
ISL6539	2 (Dual PWM)	3.3V to 18V	SSOP-28

MOSFET Drivers										
Device	V _{IN} (max) (V)	V _{DRIVE} (V)	Out-put Per Driver I _{UGATE} (mA)	Out-put Per Driver I _{LGATE} (mA)	Phase V _{PHASE} (min) (V)	Phase V _{PHASE} (max) (V)	No Load I _S (max) (mA)	I _q (mA)	V _{BIAS} (V)	Pkg/Pin
HIP6601B	12	5 or 12	*	700	-5	15	6.6	-	12	SOIC-8, EP-SOIC-8, QFN-16
HIP6602B	12	5 or 12	*	700	-5	15	9	-	12	SOIC-14, QFN-16
HIP6603B	12	5 or 12	*	700	-5	15	7	-	12	SOIC-8, EP-SOIC-8, QFN-16
HIP6604B	12	5 or 12	*	700	-5	15	9.8	-	12	SOIC-8, EP-SOIC-8, QFN-16
ISL6205	-	12	600	600	-5	25	1.7	-	12	SOIC-8
ISL6206	-	5	700	700	-5	30	0.25	-	5	SOIC-8
ISL6207	-	5	2A	2A	-5	30	0.25	-	5	SOIC-8, QFN-8
ISL6605	17	5	2/2A	2/4A	Vboot -7	22	0.03	0.002	5	SOIC-8, QFN-8

* Upper gate drive capability is specified according to source/sink impedance. Please see the datasheet for details.

For more device Information, visit www.intersil.com/intelembded



Check out Intersil's online power supply simulation tool at www.intersil.com/isim

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