

Linear Technology μ Module[®] Power Product Family



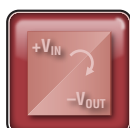
Package

Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Capability	Package Dimensions (mm)	Package
		Min	Max	Min	Max			
Step-Down	LTM8023	3.6	36	0.8	10	2A	9 × 11.25 × 3.4	BGA
	LTM8032	3.6	36	0.8	10	2A	9 × 15 × 3.4	BGA
	LTM4601	4.5	20	0.6	5	12A	15 × 15 × 3.4	BGA
	LTM4601A	4.5	20	0.6	5	12A	15 × 15 × 3.4	BGA
	LTM4601AHV	4.5	28	0.6	5	12A	15 × 15 × 3.4	BGA
	LTM4627	4.5	20	0.6	5	15A	15 × 15 × 4.9	BGA
725V Isolated	LTM8047	3.1	32	2.5	12	1.5W	9 × 11.25 × 4.9	BGA
	LTM8048	3.1	32	1.2	12	1.5W	9 × 11.25 × 4.9	BGA



Adjustable Current Limit

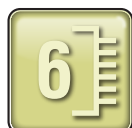
Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Current Sink/Source	Package Dimensions (mm)	Package
		Min	Max	Min	Max			
Step-Down	LTM8052	6	36	1.2	24	-5A to 5A	11.25 × 15 × 2.8	LGA
	LTM8026	6	36	1.2	24	5A	11.25 × 15 × 2.8	LGA



Inverting

Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Capability*	Package Dimensions (mm)	Package
		Min	Max*	Min	Max			
725VDC Isolated	LTM8047	3.1	32	-2.5	-12	1.5W	9 × 11.25 × 4.9	BGA
Step-Up & Down	LTM4605	4.5	20	-0.8	-16	12A	15 × 15 × 2.8	LGA
	LTM4607	4.5	36	-0.8	-24	10A	15 × 15 × 2.8	LGA
	LTM4609	4.5	36	-0.8	-34	10A	15 × 15 × 2.8	LGA
Step-Down	LTM8020	4	36	-1.2	-5	0.2A	6.25 × 6.25 × 2.3	LGA
	LTM8021	3	36	-0.8	-5	0.5A	6.25 × 11.25 × 2.8	LGA
	LTM8022	3.6	36	-0.8	-10	1A	9 × 11.25 × 2.8	LGA
	LTM8023	3.6	36	-0.8	-10	2A	9 × 11.25 × 2.8 9 × 11.25 × 3.4	LGA BGA
	LTM8029	4.2	36	-1.2	-24	0.6A	6.25 × 11.25 × 3.4	BGA
	LTM8025	3.6	36	-0.8	-24	3A	9 × 15 × 4.3	LGA
	LTM8026	6	36	-1.2	-24	5A	11.25 × 15 × 2.8	LGA
	LTM8052	6	36	-1.2	-24	-5A to 5A	11.25 × 15 × 2.8	LGA
	LTM8027	4.5	60	-2.5	-24	4A	9 × 15 × 4.3	LGA

* See Design Note 1021 for $V_{IN(MAX)}$ and I_{OUT} calculations.



6 Outputs



3 Outputs



2 Outputs

Function	Part Number	Output Channels	Input Voltage (V)		Output Voltage (V)		Output Capability	Package Dimensions (mm)	Package
			Min	Max	Min	Max			
Step-Down	LTM4614	2	2.375	5.5	0.8	5	4A	15 × 15 × 2.8	LGA
	LTM4616	2	2.7	5.5	0.6	5	8A	15 × 15 × 2.8	LGA
	LTM4619	2	4.5	26.5	0.8	5	4A	15 × 15 × 2.8	LGA
	LTM4628	2	4.5	26.5	0.6	5	8A	15 × 15 × 4.3	LGA
725V Isolated	LTM8048	2	3.1	32	1.2	12	1.5W	9 × 11.25 × 4.9	BGA
Step-Down	LTM4615	3	2.375	5.5	0.8	5	4A, 4A, 1.5A	15 × 15 × 2.8	LGA
Step-Up & Down	LTM8008	6	3	72	3.3	5	≤500mA	15 × 15 × 2.8	LGA



Automotive Grade

Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Package Dimensions (mm)	Package
		Min	Max	Min	Max			
Step-Up & Down	LTM8008H	3	72	3.3	5	≤0.5	15 × 15 × 2.8	LGA

Shaded areas indicate sorted columns.



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Isolated

Part Number	Isolation Voltage	Input Voltage (V)		Output Voltage (V)		Internal LDO	Output Power	Package Dimensions (mm)	Package
		Min	Max	Min	Max				
LTM8047	725VDC	3.1	32	2.5	12	–	1.5W	9 × 11.25 × 4.9	BGA
LTM8048	725VDC	3.1	32	1.2	12	Yes	1.5W	9 × 11.25 × 4.9	BGA



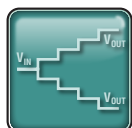
Battery Charger

Part Number	Input Voltage (V)		Battery Float Voltage (V)		Compatible Battery Chemistry	Charge Current (A)	Package Dimensions (mm)	Package
	Min	Max	Min	Max				
LTM8061	4.95	32	4.1	8.4	Li-Ion, Li-Poly	2	9 × 15 × 4.3	LGA
LTM8062	4.95	32	3.3	14.4	Li-Ion, Li-Poly, Lead Acid, LiFePO ₄	2	9 × 15 × 4.3	LGA
LTM8062A	4.95	32	3.3	18.8		2	9 × 15 × 4.3	LGA



LED Driver

Part Number	Input Voltage (V)		Output Voltage (V)		LED Drive Current (A)	Dimming	Sync Range (MHz)	Package Dimensions (mm)	Package
	Min	Max	Min	Max					
LTM8042	3	30	2	32	1	Analog, PWM	0.25 – 2.0	9 × 15 × 2.8	LGA
LTM8042-1	3	30	2	32	0.35	Analog, PWM	0.25 – 2.0	9 × 15 × 2.8	LGA
LTM8040	4	36	2.5	13	1	Analog, PWM	–	9 × 15 × 4.3	LGA



Step-Up & Down

Part Number	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Sync Range (MHz)	Package Dimensions (mm)	Package
	Min	Max	Min	Max				
LTM4605	4.5	20	0.8	16	5*	0.2 – 0.4	15 × 15 × 2.8	LGA
LTM4607	4.5	36	0.8	24	5*	0.2 – 0.4	15 × 15 × 2.8	LGA
LTM4609	4.5	36	0.8	34	4*	0.2 – 0.4	15 × 15 × 2.8 15 × 15 × 3.4	LGA BGA
LTM8008	3	72	3.3	5	≤0.5	0.1 – 1.0	15 × 15 × 2.8	LGA

* Output current increases by approximately 2x in step-down mode.



Step-Down

Part Number	Output Channels	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Sync Range (MHz)	Package Dimensions (mm)	Package
		Min	Max	Min	Max				
LTM4611	1	1.5	5.5	0.8	5	15	0.36 – 0.71	15 × 15 × 4.3	LGA
LTM4604A	1	2.375	5.5	0.8	5	4	–	9 × 15 × 2.3	LGA
LTM4614	2	2.375	5.5	0.8	5	4	–	15 × 15 × 2.8	LGA
LTM4615	3	2.375	5.5	0.8	5	4	–	15 × 15 × 2.8	LGA
LTM4608A	1	2.7	5.5	0.6	5	8	0.75 – 2.25	9 × 15 × 2.8	LGA
LTM4616	2	2.7	5.5	0.6	5	8	0.75 – 2.25	15 × 15 × 2.8	LGA
LTM4602	1	4.5	20	0.6	5	6	–	15 × 15 × 2.8	LGA
LTM4603	1	4.5	20	0.6	5	6	0.7 – 1.3	15 × 15 × 2.8	LGA
LTM4600	1	4.5	20	0.6	5	10	–	15 × 15 × 2.8	LGA
LTM4605	1	4.5	20	0.8	16	12	0.2 – 0.4	15 × 15 × 2.8	LGA
LTM4601	1	4.5	20	0.6	5	12	0.6 – 1.1	15 × 15 × 2.8 15 × 15 × 3.4	LGA BGA
LTM4601-1	1	4.5	20	0.6	5	12	0.6 – 1.1	15 × 15 × 2.8	LGA
LTM4601A	1	4.5	20	0.6	5	12	0.6 – 1.1	15 × 15 × 2.8 15 × 15 × 3.4	LGA BGA
LTM4601A-1	1	4.5	20	0.6	5	12	0.6 – 1.1	15 × 15 × 2.8	LGA
LTM4627	1	4.5	20	0.6	5	15	0.4 – 0.8	15 × 15 × 4.3 15 × 15 × 4.9	LGA BGA
LTM4619	2	4.5	26.5	0.8	5	4	0.25 – 0.78	15 × 15 × 2.8	LGA
LTM4618	1	4.5	26.5	0.8	5	6	0.4 – 0.78	9 × 15 × 4.3	LGA
LTM4628	2	4.5	26.5	0.6	5	8	0.4 – 0.78	15 × 15 × 4.3	LGA
LTM4602HV	1	4.5	28	0.6	5	6	–	15 × 15 × 2.8	LGA
LTM4603HV	1	4.5	28	0.6	5	6	0.7 – 1.3	15 × 15 × 2.8	LGA
LTM4606	1	4.5	28	0.6	5	6	0.63 – 1.0	15 × 15 × 2.8	LGA



Step-Down
(continued)

Part Number	Output Channels	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Sync Range (MHz)	Package Dimensions (mm)	Package
		Min	Max	Min	Max				
LTM4600HV	1	4.5	28	0.6	5	10	–	15 × 15 × 2.8	LGA
LTM4601AHV	1	4.5	28	0.6	5	12	0.6 – 1.1	15 × 15 × 2.8 15 × 15 × 3.4	LGA BGA
LTM4601HV	1	4.5	28	0.6	5	12	0.6 – 1.1	15 × 15 × 2.8 15 × 15 × 3.4	LGA BGA
LTM8020	1	4	36	1.2	5	0.2	–	6.25 × 6.25 × 2.3	LGA
LTM8021	1	3	36	0.8	5	0.5	–	6.25 × 11.25 × 2.8	LGA
LTM8029	1	4.2	36	1.2	24	0.6	–	6.25 × 11.25 × 3.4	BGA
LTM8022	1	3.6	36	0.8	10	1	0.25 – 2.0	9 × 11.25 × 2.8	LGA
LTM8031	1	3.6	36	0.8	10	1	0.25 – 2.0	9 × 15 × 2.8	LGA
LTM8023	1	3.6	36	0.8	10	2	0.25 – 2.0	9 × 11.25 × 2.8 9 × 11.25 × 3.4	LGA BGA
LTM8032	1	3.6	36	0.8	10	2	0.25 – 2.0	9 × 15 × 2.8 9 × 15 × 3.4	LGA BGA
LTM8025	1	3.6	36	0.8	24	3	0.25 – 2.0	9 × 15 × 4.3	LGA
LTM8033	1	3.6	36	0.8	24	3	0.25 – 2.0	11.25 × 15 × 4.3	LGA
LTM8026	1	6	36	1.2	24	5	0.1 – 1.0	11.25 × 15 × 2.8	LGA
LTM8052	1	6	36	1.2	24	±5	0.1 – 1.0	11.25 × 15 × 2.8	LGA
LTM4612	1	5	36	3.3	15	5	0.2 – 1.3	15 × 15 × 2.8	LGA
LTM4613	1	5	36	3.3	15	8	0.2 – 1.3	15 × 15 × 4.3	LGA
LTM4609	1	4.5	36	0.8	34	10	0.2 – 0.4	15 × 15 × 2.8	LGA
LTM4607	1	4.5	36	0.8	24	10	0.2 – 0.4	15 × 15 × 2.8	LGA
LTM8027	1	4.5	60	2.5	24	4	0.12 – 0.5	15 × 15 × 4.3	LGA



Low V_{IN}

Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Package Dimensions (mm)	Package
		Min	Max	Min	Max			
Step-Down	LTM4611	1.5	5.5	0.8	5	15	15 × 15 × 4.3	LGA
	LTM4604A	2.375	5.5	0.8	5	4	9 × 15 × 2.3	LGA
	LTM4614	2.375	5.5	0.8	5	Dual: 4, 4	15 × 15 × 2.8	LGA
	LTM4615	2.375	5.5	0.8	5	Triple: 4, 4, 1.5	15 × 15 × 2.8	LGA
	LTM4608A	2.7	5.5	0.6	5	8	9 × 15 × 2.8	LGA
	LTM4616	2.7	5.5	0.6	5	Dual: 8, 8	15 × 15 × 2.8	LGA



EN55022 Class B

Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Sync Range (MHz)	Package Dimensions (mm)	Package
		Min	Max	Min	Max				
Step-Down	LTM8020	4	36	1.2	5	0.2	–	6.25 × 6.25 × 2.3	LGA
	LTM8021	3	36	0.8	5	0.5	–	6.25 × 11.25 × 2.8	LGA
	LTM8022	3.6	36	0.8	10	1	0.25 – 2.0	9 × 11.25 × 2.8	LGA
	LTM8031	3.6	36	0.8	10	1	0.25 – 2.0	9 × 15 × 2.8	LGA
	LTM8032	3.6	36	0.8	10	2	0.25 – 2.0	9 × 15 × 2.8 9 × 15 × 3.4	LGA BGA
	LTM8033	3.6	36	0.8	24	3	0.25 – 2.0	11.25 × 15 × 4.3	LGA
	LTM4612	5	36	3.3	15	5	0.2 – 1.3	15 × 15 × 2.8	LGA
	LTM4613	5	36	3.3	15	8	0.2 – 1.3	15 × 15 × 4.3	LGA

Shaded areas indicate sorted columns.



Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Package Dimensions (mm)	Package
		Min	Max	Min	Max			
Step-Down	LTM8020	4	36	1.2	5	0.2	6.25 × 6.25 × 2.3	LGA
	LTM8021	3	36	0.8	5	0.5	6.25 × 11.25 × 2.8	LGA
	LTM8029	4.2	36	1.2	24	0.6	6.25 × 11.25 × 3.4	BGA
	LTM8022	3.6	36	0.8	10	1	9 × 11.25 × 2.8	LGA
	LTM8031	3.6	36	0.8	10	1	9 × 15 × 2.8	LGA
	LTM8023	3.6	36	0.8	10	2	9 × 11.25 × 2.8 9 × 11.25 × 3.4	LGA BGA
	LTM8032	3.6	36	0.8	10	2	9 × 15 × 2.8 9 × 15 × 3.4	LGA BGA
	LTM8025	3.6	36	0.8	24	3	9 × 15 × 4.3	LGA
	LTM8033	3.6	36	0.8	24	3	11.25 × 15 × 4.3	LGA
	LTM8026	6	36	1.2	24	5	11.25 × 15 × 2.8	LGA
	LTM8052	6	36	1.2	24	±5	11.25 × 15 × 2.8	LGA
	LTM4612	5	36	3.3	15	5	15 × 15 × 2.8	LGA
	LTM4613	5	36	3.3	15	8	15 × 15 × 4.3	LGA
	LTM4609	4.5	36	0.8	34	10	15 × 15 × 2.8	LGA
	LTM4607	4.5	36	0.8	24	10	15 × 15 × 2.8	LGA
	LTM8027	4.5	60	2.5	24	4	15 × 15 × 4.3	LGA



Function	Part Number	Input Voltage (V)		Output Voltage (V)		Output Capability	Package Dimensions (mm)	Package
		Min	Max	Min	Max			
725V Isolated	LTM8047MP	3.1	32	2.5	12	1.5W	9 × 11.25 × 4.9	BGA
	LTM8048MP	3.1	32	1.2	12	1.5W	9 × 11.25 × 4.9	BGA
Step-Up & Down	LTM4609MP	4.5	36	0.8	34	4A	15 × 15 × 2.8	LGA
Step-Down	LTM4608AMP	2.7	5.5	0.6	5	8A	9 × 15 × 2.8	LGA
	LTM4627MP	4.5	20	0.6	5	15A	15 × 15 × 4.9	BGA
	LTM4606MP	4.5	28	0.6	5	6A	15 × 15 × 2.8	LGA
	LTM4600HVMP	4.5	28	0.6	5	10A	15 × 15 × 2.8	LGA
	LTM4601AHVMP	4.5	28	0.6	5	12A	15 × 15 × 2.8 15 × 15 × 3.4	LGA BGA
	LTM8020MP	4V	36	1.2	5	0.2A	6.25 × 6.25 × 2.3	LGA
	LTM8029MP	4.2	36	1.2	24	0.6A	6.25 × 11.25 × 3.4	BGA
	LTM8022MP	3.6	36	0.8	10	1A	9 × 11.25 × 2.8	LGA
	LTM8023MP	3.6	36	0.8	10	2A	9 × 11.25 × 2.8 9 × 11.25 × 3.4	LGA BGA
	LTM8032MP	3.6	36	0.8	10	2A	9 × 15 × 2.8 9 × 15 × 3.4	LGA BGA
	LTM8025MP	3.6	36	0.8	24	3A	9 × 15 × 4.3	LGA
	LTM8033MP	3.6	36	0.8	24	3A	11.25 × 15 × 4.3	LGA
	LTM4612MP	5	36	3.3	15	5A	15 × 15 × 2.8	LGA
	LTM4613MP	5	36	3.3	15	8A	15 × 15 × 4.3	LGA
	LTM8027MP	4.5	60	2.5	24	4A	15 × 15 × 4.3	LGA

Shaded areas indicate sorted columns.

