

PART NUMBER	DESCRIPTION	MIN $V_{SUPPLY}$	COMMENTS
<b>Step-Up DC/DC Converters from 1 or 2 Cells</b>			
LT <sup>®</sup> 1073/1173	Micropower DC/DC Converter	1V/2V	Versatile micropower converter, 2V to 30V input
LT1107/1108	Micropower DC/DC Converter	2V	Adjustable current limit, up to 300mA output
LT1110/1111	Micropower DC/DC Converter	1V/2V	Step-up/step-down or inverting, SO-8
LT1172	100kHz Switching Regulator, 1.25A Switch	3V	Internal 1.25A switch, easy to use 8-pin SOIC
LT1373/2/7	250kHz/500kHz/1MHz Boost Switching Regulators	2.7V	Internal 1.5A switch, uses very small SMT components
LT1109	Micropower DC/DC Converter	2V	Use for flash memory VPP. Also in TO-92
LTC <sup>®</sup> 1044	Inductorless DC/DC Converter	1.5V	For $I_{OUT}$ up to 6mA at 3.3 $V_{IN}$
LTC1046	Inductorless DC/DC Converter	1.5V	For $I_{OUT}$ up to 25mA at 3.3 $V_{IN}$
LT1308	Micropower 600kHz PWM Boost DC/DC Converter	1V	Most powerful single cell boost converter
LT1610	1.7MHz Micropower Boost Converter	1V	Smallest single cell boost converter
LT1300	Micropower Boost DC/DC Converter	1.8V	3.3V at 500mA from 2 cells
LT1301	Micropower 5V/12V Boost Converter	1.8V	12V at 120mA from 3.3V supply
LT1302	Micropower Boost DC/DC Converter	2V	5V at 900mA from 3.3V supply
LT1303	Micropower Boost DC/DC Converter	1.8V	On-chip low-battery detector
LT1304	Micropower Boost DC/DC Converter	1.5V	Low-battery detector alive in shutdown
LT1307	Single Cell, 600kHz Boost converter	1V	Uses small inexpensive ceramic output caps, low EMI in 455kHz range
LT1316	Micropower Boost DC/DC Converter	1.5V	33 $\mu$ A $I_Q$ , programmable peak current limit
LT1317	Micropower 600kHz PWM Boost Converter	1.5V	3.3V at 200mA from 2 cells
LTC1516	Inductorless 3.3V to 5V Converter	2V	Micropower, 50mA maximum output
LTC1517-3.3	Micropower Regulated 3.3V Charge Pump	2V	$I_{CC}$ = 6 $\mu$ A typ, small SOT-23 package, no inductors
LTC1522	Micropower Regulated 5V Charge Pump	2.7V	3.3V to 5V at 20mA, <1 $\mu$ A shutdown current, MSOP
<b>High Efficiency Step-Down Switching Regulators</b>			
LTC1147-3.3	High Efficiency Step-Down Regulator Controller with Burst Mode <sup>™</sup> Operation	4V	8-pin SO packaging, up to 16V input. 90%+ efficiency for 3.3V output from 5V
LTC1147L-3.3	DC/DC Controller with Burst Mode Operation	3.5V	>90% efficiency, SO-8 package, low cost
LTC1148-3.3	Synchronous Rectifier Step-Down Switching Regulator Controller with Burst Mode Operation	4V	Switching regulator controller using two external MOSFETs. Up to 16V input. 92%+ efficiency
LTC1148L-3.3	Synchronous DC/DC Controller with Burst Mode Operation	3.5V	>90% efficiency, synchronous rectification
LTC1149	High Input Voltage Synchronous DC/DC Controller with Burst Mode Operation	4V	Up to 48V input, >90% efficiency, synchronous rectification, adjustable and fixed 3.3V versions
LTC1174-3.3	High Efficiency Step-Down DC/DC Converter	4V	5V to 3.3V at 400mA, >90% efficiency
LTC1433/4	Micropower, High Efficiency Step-Down Converter	3.5V	Adaptive Power <sup>™</sup> mode operation for high efficiency with constant frequency at low output current. LTC1434 has PLL for synchronization
LTC1435/6/7	Ultrahigh Efficiency Step-Down Controllers	3.5V	All N-channel design, Adaptive Power mode operation, up to 10A+ designs practical (see InfoCard 15)
LTC1474-3.3	Low $I_Q$ , High Efficiency DC/DC Converter	3V	10 $\mu$ A $I_Q$ , programmable peak current limit
LTC1504-3.3	Low Voltage Synchronous DC/DC Converter	4V	5V to 3.3V at 500mA, synchronous rectification
LTC1553L	5-Bit Programmable DC/DC Controller	4.5V	Programmable 1.8V to 3.5V output for Intel Pentium <sup>®</sup> II processor power
LTC1574	High Efficiency Step-Down DC/DC Converter	4V	Up to 94% efficiency using internal Schottky diode
LTC1624	High Efficiency SO-8 DC/DC Controller	3.5V	N-channel MOSFET drive, up to 36V input, SO-8
LTC1626	Low Voltage, High Efficiency DC/DC Converter	2.5V	Operates from single Li-Ion cell, 600mA output

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<b>Linear Voltage Regulators</b>			
LT1083	Low Dropout 7.5A Regulator	N/A	Regulates 5V to 3.3V or lower (Adjustable outputs)
LT1086-3.3	Low Dropout 1.5A Regulator	4.5V @ 1.5A	Low dropout at high current in DD package
LT1117-3.3	800mA Low Dropout Regulator	$V_{OUT} + 1V$	1V dropout, available in SOT-23 package
LT1120A	125mA Micropower Regulator	4V @ 125mA	Ultralow dropout, 20 $\mu$ A $I_Q$ , low-battery detector
LT1121-3.3	150mA Micropower Low Dropout Regulator	4V @ 150mA	0.4V dropout, 30 $\mu$ A $I_Q$ , SOT-223 or SO-8 package
LT1129-3.3	700mA Micropower Low Dropout Regulator	4V @ 700mA	0.4V dropout, 50 $\mu$ A $I_Q$ , SOT-223 or SO-8 package
LT1528	3A Fast Response Low Dropout Regulator	4.15V @ 3A	3.3V output, 0.6V dropout, fast transient response
LT1529-3.3	3A Micropower Low Dropout Regulator	4.25V @ 3A	0.5V dropout, 50 $\mu$ A $I_Q$ , reverse battery protection
LT1573-3.3	Low Dropout Regulator Driver	3.65V @ 5A	Drives external PNP, 0.35V dropout at 5A load
LT1575-3.3	Ultrafast Response Low Dropout Regulator	Depends on MOSFET	Ultrafast transient response eliminates bulk output capacitors, drives external N-channel MOSFET
LT1579-3.3	300mA Dual Input Low Dropout Regulator	4.05V @ 300mA	Dual input, battery backup regulator with 0.4V dropout, 50 $\mu$ A $I_Q$ , reverse battery protection
LT1584-3.3	Low Dropout 7A Regulator	4.5V @ 5A	Low dropout at high current, fast transient response
LT1585-3.3	Low Dropout Regulator for Microprocessors	4.75V @ 4A	Low dropout, fast transient response, DD package (–3.3 and adjustable are 4.6A, LT1585A is 5A)
LT1587-3.3	Low Dropout 3A Regulator	4.5V @ 3A	Low dropout at high current, fast transient response
<b>Interface Circuits</b>			
LTC1327	3.3V Micropower EIA/TIA-562: 3-Dx/5-Rx	3.3V	300 $\mu$ A supply current, $\pm 10kV$ ESD protection
LT1330	RS232 Serial Port with 3.3V Logic Levels	5V/3.3V	3-Dx/5-Rx interface directly with 3.3V logic levels.
LT1331	RS232 Serial Port with 3.3V Logic Levels	3V	RS232 (LT1330) driver output levels. One receiver kept alive in shutdown. Low power. $\pm 10kV$ ESD immunity
LT1332	3V Powered True RS232, 3-Dx/5-Rx	2V	Works with LT1109A to generate $\pm 12V$ supplies, $\pm 10kV$ ESD protection
LT1342	RS232 Serial Port with 3.3V Logic Levels	5V/3.3V	3-Dx/5-Rx, 3.3V logic compatible. 0.1 $\mu$ F capacitor operation
LTC1348	3.3V Micropower RS232: 3-Dx/5-Rx with with Shutdown	3V	600 $\mu$ A $I_{SY}$ (active), 0.2 $\mu$ A in shutdown, $\pm 10k$ ESD protected, 0.1 $\mu$ F capacitors
LTC1350	3.3V Micropower EIA/TIA-562: 3-Dx/5-Rx with 2 Rx Active in Shutdown	3.3V	300 $\mu$ A $I_{SY}$ (active), 35 $\mu$ A in shutdown, $\pm 10k$ ESD protected, 0.1 $\mu$ F caps. 2 receivers active in shutdown
LTC1385	Micropower EIA/TIA-562 2-Driver/2-Receiver	3.3V	280 $\mu$ A supply current (active), 2 receivers alive in shutdown (50 $\mu$ A), $\pm 10kV$ ESD
LTC1386	Micropower EIA/TIA-562 2-Driver/2-Receiver	3.3V	200 $\mu$ A supply current (active), $\pm 10kV$ ESD
LTC1480	Low Power, Half-Duplex RS485 Transceiver	3V	500 $\mu$ A supply current, 1 $\mu$ A shutdown current
<b>Microprocessor Supervisors</b>			
LTC694-3.3	3.3V Microprocessor Reset	2.9V	Guaranteed reset assertion to logic low with $V_{CC}$
LTC695-3.3	and Watchdog Timer ICs	2.9V	as low as 1V
LTC1326	Micropower Triple Supply Monitor	1V	Monitors 5V, 3.3V and adjustable down to 1V
LTC1326-2.5	Micropower Triple Supply Monitor	1V	Monitors 3.3V, 2.5V and adjustable down to 1V
LTC1536	PCI-Compliant Triple Supply Monitor	1V	PCI-compliant $t_{FALL}$ timing, 5V, 3.3V and adjustable
<b>Power Management Circuits</b>			
LTC1157	Dual N-Channel MOSFET High-Side Switch Driver	2.7V	Allow use of N-channel MOSFETs as high-side power switches in 3V systems
LTC1163	Triple N-Channel MOSFET	1.8V	Allow use of N-channel MOSFETs as high-side power switches in 3V systems. LTC1165 has opposite logic polarity
LTC1165	High-Side Switch Drivers		
LTC1421	Multiple Voltage Hot Swap™ Controller	2.7V	Control inrush current for 5V, 3V and $\pm 12V$
LTC1422	Hot Swap Controller in SO-8	2.7V	Control inrush current for single supply
LTC1623	SMBus Dual High Side Switch Controller	2.7V	Built-in charge pumps drive N-channel switches
LTC1710	SMBus Dual High Side Switch	2.7V	Internal 0.4 $\Omega$ N-channel MOSFETs in MSOP-8

Hot Swap is a trademark of Linear Technology Corporation.

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<b>Multiplexers</b>			
LTC1380	8-Channel Analog Multiplexer	3V	SMBus/I <sup>2</sup> C™ serial interface
LTC1390	8-Channel Analog Multiplexer	3V	3-wire bidirectional serial interface
LTC1391	8-Channel Analog Multiplexer	3V	3-wire SPI-compatible interface
LTC1393	4-Channel Differential Analog Multiplexer	3V	SMBus/I <sup>2</sup> C serial interface
<b>A/D Converters</b>			
LTC1096/98	8-Bit, Micropower, Serial I/O	2.7V	Micropower, sampling A/D in 8-pin DIP, SOIC
LTC1196/98	8-Bit, High Speed Serial A/D	2.7V	1MHz sampling A/D in 8-pin SOIC
LTC1197L	10-Bit, 250ksps, Serial Output, SO-8	2.7V	Differential input, sampling A/D, SO-8, MSOP
LTC1199L	10-Bit, 210ksps, Serial Output, SO-8	2.7V	2-channel input, sampling A/D, SO-8 MSOP
LTC1282	12-Bit, Parallel I/O, Int. V <sub>REF</sub> , S/H	2.7V	Complete 140kHz sampling 12-bit A/D
LTC1283	10-Bit, 8-Ch MUX, Full Duplex I/O	2.7V	Sampling 10-bit A/D with 8-channel multiplexer
LTC1285/88	12-Bit, Micropower, Serial I/O	2.7V	Sampling 12-bit A/D in 8-pin DIP, SOIC
LTC1287	12-Bit, Differential Input, 8-pin DIP	2.7V	Sampling 12-bit A/D with differential input and serial I/O
LTC1289	12-Bit, 8-Ch MUX, Full Duplex I/O, S/H	2.7V	Sampling 12-bit A/D with 8-channel multiplexer
LTC1401	Complete 12-Bit, 200ksps ADC	2.7V	Internal reference, nap and sleep mode, SO-8
LTC1594L	12-Bit, 4-Input MUX, Micropower, Serial I/O	2.7V	Sampling 12-bit A/D in narrow 16-pin SO
LTC1598L	12-Bit, 8-Input MUX, Micropower, Serial I/O	2.7V	Sampling 12-bit A/D in 24-pin SSOP
<b>D/A Converters (DACs)</b>			
LTC1329-10/-50	10µA and 50µA 8-Bit Current Output DACs	2.7V	Ideal for programming adjustable negative regulators
LTC1426	Dual 6-Bit PWM Output DAC	2.7V	Ideal for controlling dual current mode regulator
LTC1427-50	50µA 10-Bit Current Output DAC	2.7V	SMBus/I <sup>2</sup> C serial interface, similar to LTC1329
LTC1428-50	50µA 8-Bit Current Sink Output DAC	3V	Ideal for programming adjustable positive regulators
LTC1446L	Dual 12-Bit V <sub>OUT</sub> DAC with V <sub>REF</sub> in SO-8	2.7V	Micropower DAC, V <sub>OUT</sub> = 0V to 2.5V
LTC1448	Dual 12-Bit V <sub>OUT</sub> DAC in SO-8	2.7V	Micropower DAC, V <sub>OUT</sub> = 0V to V <sub>CC</sub>
LTC1450L	12-Bit V <sub>OUT</sub> DAC with Parallel Input	2.7V	Micropower DAC, V <sub>OUT</sub> = 0V to 2.5V
LTC1452	12-Bit V <sub>OUT</sub> Multiplying DAC	2.7V	Multiplying DAC with Rail-to-Rail V <sub>OUT</sub> in SO-8
LTC1453	12-Bit V <sub>OUT</sub> DAC with V <sub>REF</sub> , serial I/O	2.7V	Micropower V <sub>OUT</sub> DAC in SO-8
LTC1454L	Dual 12-Bit V <sub>OUT</sub> DAC with V <sub>REF</sub>	2.7V	Micropower DAC, V <sub>OUT</sub> = 0V to 2.5V
LTC1458L	Quad 12-Bit V <sub>OUT</sub> DAC with V <sub>REF</sub>	2.7V	Micropower DAC, V <sub>OUT</sub> = 0V to 2.5V
LTC1659	12-Bit V <sub>OUT</sub> MULTIPLYING DAC in MSOP	2.7V	Multiplying Rail-to-Rail V <sub>OUT</sub> , REF can tie to V <sub>CC</sub>
LTC1660	Octal 10-Bit V <sub>OUT</sub> DAC, Serial I/O	2.7V	Micropower DAC in 16-pin SSOP
<b>Single Supply Op Amps and Instrumentation Amps</b>			
LT1178 LT1179	Dual Micropower (17µA) Quad Micropower (17µA)	2.2V	Tested at minimum supply, works at 1.7V with –300µV V <sub>OS</sub> skew
LT1077/8/9	Micropower (60µA) Single, Dual, Quad	2.3V	Tested at minimum supply, works at 1.8V with –300µV V <sub>OS</sub> skew
LT1101	Micropower Instrumentation Amp	2.3V	Tested at minimum supply, works at 1.7V with no V <sub>OS</sub> skew
LT1006 LT1413 LT1014	Low Power Precision Dual Low Power Precision Quad Low Power Precision	2.7V 2.7V 2.95V	Tested at minimum supply, source or sink 20mA PSRR tested at 3.2V, low cost, high performance Standard pinout, wide input and output range
LT1211/12 LT1213/14 LT1215/16	Dual/Quad High Speed Dual/Quad High Speed Dual/Quad High Speed	3.3V 3.3V 3.3V	Combine low V <sub>OS</sub> (150µV Max) with high speed (7MHz to 28MHz). Fully tested at V <sub>S</sub> = 3.3V
LTC1152	Rail-to-Rail Input/Output Zero Drift Amp	2.7V	Precision zero drift op amp swings rail-to-rail on output. Input common-mode range includes both rails.

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LT1366/7	Rail-to-Rail Input/Output Dual/Quad Op Amp	1.8V	Precision bipolar dual/quad op amp swings rail-to-rail on output. Input common mode range includes both rails. LT1368/9 are C-Load™ stable.
LT1490/1 LT1495/6	Rail-to-Rail Input/Output Dual/Quad Op Amp 1.5μA (Max) Precision Rail-to-Rail Op Amps	2V 2.2V	Micropower (50μA/amplifier), SO package 375μA offset voltage, 250pA input bias current
LT1498/9	10MHz, 5V/μs Dual/Quad Rail-to-Rail	2.2V	Fast, precision rail-to-rail input/output
LT2078/9	Micropower Dual/Quad (40μA)	2.2V	Standard SO-8 (dual) and 14-pin SO (quad) packages
LT1635 LT1636 LT1638/9	Micropower Rail-to-Rail Op Amp and Reference Micropower Rail-to-Rail Input and Output Op Amp 1.2MHz Micropower Rail-to-Rail Op Amps	1.2V 2.7V 2.5V	130μA supply current, output drives 1000pF 44V input range both differential and common mode Input range –0.4V to 44V on single supply
<b>Dual Supply Op Amps</b>			
LT1001/02	Precision LT1001 Single, LT1002 Dual	±3V ±1.35V	Tested at ±3V, $I_S \approx 650\mu A$ Stable for $A_V = 1$ , $I_{SY} \approx 390\mu A$
LT1008 LT1012 LT1024	Low Ib Precision Low Ib Precision ( $A_V \geq 1$ ) Dual LT1012	±1.2V	Picoamp input current, microvolt offset, low noise op amps, guaranteed operation at ±1.2V
LT1097	Low Cost Precision	±1.2V	Guaranteed operation on two NiCd cells
<b>Voltage References</b>			
LT1004-1.2/2.5	Micropower Reference	1.2V/2.5V	Low Cost
LT1009	Low Power Reference	2.5V	High performance, low cost
LT1019-2.5	High Accuracy Reference	2.5V	Used in shunt mode, provides lowest drift, highest accuracy
LT1034-1.2/2.5	Micropower Reference	1.2V/2.5V	Guaranteed temperature coefficient
LT1258-2.5	Low Dropout Series Reference	2.7V	Very low power (4μA), low dropout (200mV)
LT1634-1.25	Micropower Precision Shunt Voltage Reference	1.25V	10μA operating current, 0.05% initial accuracy
<b>Voltage Comparators</b>			
LT1017	Micropower (60μA) Comparator	1.2V	Output drives up to 70mA
LT1018	Micropower (250μA) Comparator	1.2V	Faster than LT1017
LTC1040	Dual CMOS Sampling Comparator	2.8V	Unique 4 input architecture, 300mA supply current
LTC1041	CMOS Bang-Bang Controller	2.8V	8-pin package provides complete control function
LTC1042	CMOS Window Comparator	2.8V	Adjustable, noninteractive center and width control
LTC1440/1/2	Single/Dual Micropower Comparator with Reference	2V	2.8μA supply current comparator. LTC1440/42 have built-in 1.2V reference
LTC1443/4/5	Quad Micropower	2V	5.5μA total supply current, built-in 1.2V reference
LTC1540 LTC1542	Nanopower Comparator with 1.182V Reference Micropower Op Amp and Comparator	2V 2.5V	0.3μA quiescent current, TTL/CMOS outputs 10pA input current, 700μV maximum offset voltage
<b>PCMCIA Products</b>			
LTC1470 LTC1471 LTC1472	5V and 3.3V $V_{CC}$ Switch Dual 5V and 3.3V $V_{CC}$ Switch PCMCIA $V_{CC}$ and VPP Switches	— — —	SafeSlot™ protected switches cut through the PCMCIA maze