

# STMICROELECTRONICS Power Management ICs



Products may be RoHS compliant. Check mouser.com for RoHS status.

Life Augmented

Power Management

STMicroelectronics

NEW AT MOUSER

NEW AT MOUSER

NEW AT MOUSER

## BATTERY MANAGEMENT ICs

Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Description	Supply Voltage (V)	Supply Current (mA)	Price Each		
						1	10	100
511-STBC08PMR	STBC08PMR	DFN-6	Constant current/constant voltage charger for single Li-Ion battery	4.25 to 6.5	0.5	.91	.86	.81
511-STC3100IST	STC3100IST	MiniSO-8	Monitors critical parameters (volt, temp and current) of a single Li-Ion battery	2.7 to 5.5	0.1	2.80	2.40	1.96
511-STC3105IQT	STC3105IQT	TDFN-8	Battery monitor w/alarm output for gas gauge app.	2.7 to 5.5	0.5	2.54	2.26	2.06

## HIGH SPEED ULTRASOUND PULSER

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Voltage Supply Min./Max.	Output Current (A)	Output Freq. Typ. (MHz)	Rise Time/Fall Time (ns)	Operating Temp. (°C)	Price Each		
								1	10	100
511-STHV748QTR	STHV748QTR	QFN-64	2.4 to 3.6	±2	22	28/28	-40 to +125	29.00	26.80	22.90

## DC-DC CONVERTERS

Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Input Voltage Range (V)	Output Voltage (Max.) (V)	Switching Frequency	Typical Efficiency	Output Current	Temperature Range (°C)	Price Each		
									1	10	100
511-STBB1-APUR	STBB1-APUR	DFN-10	2 to 5.5	7	1.5 MHz	94%	1A	-40 to +85	3.33	2.56	2.32
511-STOD03ASTPUR	STOD03ASTPUR	DFN-12L	2.5 to 4.5	4.6	1.5 MHz	85%	200mA	-40 to +85	2.84	2.29	2.08
511-STOD13ATPUR	STOD13ATPUR	DFN-12L	2.5 to 4.5	4.6	1.5 MHz	85%	250mA	-65 to +150	3.14	2.53	2.30
511-PM6641TR	PM6641TR	VFQFPN-48	2.7 to 5.5	0.9	1 MHz	94%	1A	-40 to +125	6.68	5.66	5.04
511-SPV1020	SPV1020	PowerSSO-36	6.5 to 40	40	1.5 MHz	98%	5mA	-50 to +125	9.85	9.57	8.93

## STEP-UP CONVERTERS

Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Input Voltage Min/Max (V)	Quiescent Current (Max.) (mA)	Output Voltage Min/Max (V)	Shut-Down Current Max. (µA)	Turn-On/Off Time Max. (µs)	Temperature Range (°C)	Price Each		
									1	10	100
511-L6920D	L6920D	TSSOP-8	0.6/5.5	15	3.2/3.4	1.0	6.25/1.25	-40 to +125	1.61	1.42	1.32
511-LED7708TR	LED7708TR	VFQFPN-7	3.6/36	4	3.2/3.4	30	3.0/2.7	-50 to +150	3.74	3.01	2.74

## OFF-LINE SWITCHING REGULATORS

Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Drain-Source Breakdown (Min)(V)	Operating Voltage Min/Max (V)	Quiescent Current Max. (µA)	Start-Up Current Max. (µA)	RDS(ON) (Max)(Ω)	Power Dissipation (Max)(W)	Drain Current (Max)(A)	Price Each		
										1	10	100
511-ALTAIR05T-800TR	ALTAIR05T-800TR	SO-16	800	11.5/23	1.4	300.0	14	0.9	1	1.62	1.46	1.17
511-ALTAIR04-900TR	ALTAIR04-900TR	SO-16	900	11.5/23	1.4	300.0	19	0.9	0.7	2.51	2.10	1.82

## STEP-DOWN SWITCHING REGULATORS

Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	DC Input Voltage Min/Max (V)	Output Current (Max.) (mA)	Regulated Output Volt. Min/Max (V)	Efficiency Nominal	Switching Frequency Typ./Max. (kHz)	Temperature Range (°C)	Price Each		
									1	10	100
511-MC34063ECN	MC34063ECN	DIP-8	-0.3 to +40	1.5	1.25/38	80%	-----	0 to 70	.37	.36	.34
511-ST1S10PHR	ST1S10PHR	PowerSO-8	2.5/18	3	-0.3/20	90%	0.9/1.1	-40 to +150	2.51	2.15	1.54
511-ST1S30IPUR	ST1S30IPUR	DFN-8	2.7/6.0	3	-----	90%	1500/1800	-40 to +150	1.49	1.35	1.13
511-PM8903TR	PM8903TR	VFQFPN-16	2.8/6	3000	2.9/5.5	100%	1100	-40 to +150	2.48	2.00	1.80
511-ST1S40IDR	ST1S40IDR	SO-8	4/18	4	0.8/4	100%	850/1000	-40 to +125	2.00	1.88	1.65
511-ST1S40IPHR	ST1S40IPHR	HSOP-8	4/18	3000	0.8/18	100%	850	-40 to +150	2.13	1.90	1.75
511-ST1S40IPUR	ST1S40IPUR	QFPN-8	4/18	4	0.8/4	100%	850/1000	-40 to +125	2.28	2.13	1.86
511-PM6644TR	PM6644TR	DFN-10	4.5/25	350	0.9/8	100%	200/600	-40 to +125	2.33	1.94	1.67
511-L7980TR	L7980TR	VFQFPN-8	4.5/28	2	0.6	100%	225/275	-40 to +150	1.82	1.53	1.22
511-L7981	L7981	VFQFPN-8	4.5/28	3	0.6	100%	225/275	-40 to +150	2.03	1.80	1.53
511-ST1S14PHR	ST1S14PHR	HSOP-8	5.5/48	3	-0.3	90%	600/1000	-40 to +150	3.12	2.67	2.04
511-ST2S08BPQR	ST2S08BPQR	QFN-12	6.5/45	0.9	-----/1	98%	100	-40 to +85	1.86	1.64	1.41
511-L4970A	L4970A	Multiwat-15V	12/50	10	5.1/40	83%	-----/500	-40 to +150	11.24	10.92	10.19

## VOLTAGE REFERENCES

Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Type	Output Voltage (Typ.) (V)	Voltage Precision (%)	Temperature Coefficient (ppm/°C)	Cathode Current Range (mA)	Dynamic Impedance Typ./Max. (Ω)	Operating Temperature Range (°C)	Price Each		
										1	10	100
General Purpose												
511-TS431AIZ	TS431AIZ	TO-92	Adjust	1.24 to 6	1.0	100	-20 to +40	0.2/0.4	-40 to +125	1.38	1.34	1.30
511-TLVH431AICT	TLVH431AICT	SOT-323-6L	Adjust	1.24 to 18	0.5	100	-100 to +100	0.22/0.85	-40 to +125	.88	.73	.63
511-TLVH431AIL3T	TLVH431AIL3T	SOT-323-3L	Adjust	1.24 to 18	0.5	100	-100 to +100	0.22/0.85	-40 to +125	.88	.73	.63
511-TLVH431AIL5T	TLVH431AIL5T	SOT-323-5L	Adjust	1.24 to 18	0.5	100	-100 to +100	0.22/0.85	-40 to +125	.88	.73	.63
511-TLVH431BICT	TLVH431BICT	SOT-323-6L	Adjust	1.24 to 18	0.25	100	-100 to +100	0.22/0.85	-40 to +125	.70	.58	.50
511-TLVH431BIL3T	TLVH431BIL3T	SOT-323-3L	Adjust	1.24 to 18	0.25	100	-100 to +100	0.22/0.85	-40 to +125	.70	.58	.50
511-TLVH431BIL5T	TLVH431BIL5T	SOT-323-5L	Adjust	1.24 to 18	0.25	100	-100 to +100	0.22/0.85	-40 to +125	.70	.58	.50
511-TS3431BIL	TS3431BIL	SOT-23-5L	Adjust	1.24 to 24	0.5	100	0.5 to 100	-/-	-40 to +125	.51	.37	.324
511-TS2431BIL	TS2431BIL	SOT-23-5L	Adjust	2.5 to 24	0.5	50	-0.05 to +10	0.5/0.75	-40 to +85	.51	.37	.324
511-TL1431ACDT	TL1431ACDT	SO-8	Adjust	2.5 to 36	0.25	90	-100 to +150	0.2/0.5	-20 to +70	.65	.55	.413
511-TL431ACCT	TL431ACCT	SOT-323-6	Adjust	2.5 to 36	1	-	1 to 100	0.22/0.5	-40 to +125	.47	.37	.256
511-TL431ACZ	TL431ACZ	TO-92	Adjust	2.5 to 36	1	100	1 to 100	0.22/0.5	0 to +70	.41	.32	.22
511-TL431AICT	TL431AICT	SOT-323-6	Adjust	2.5 to 36	1	-	1 to 100	0.22/0.5	-40 to +125	.49	.38	.263
511-TL431AIZ	TL431AIZ	TO-92	Adjust	2.5 to 36	1	100	1 to 100	0.22/0.5	-40 to +105	.69	.52	.46
511-TL431CCT	TL431CCT	SOT-323-6	Adjust	2.5 to 36	1	-	1 to 100	0.22/0.5	-40 to +125	.44	.35	.238
511-TL431ICT	TL431ICT	SOT-323-6	Adjust	2.5 to 36	1	-	1 to 100	0.22/0.5	-40 to +125	.47	.37	.256
511-TL431IDT	TL431IDT	SO-8	Adjust	2.5 to 36	2.0	-	-100 to +150	0.22/0.5	-40 to +105	.56	.39	.257

### Micropower

511-LM4041AICT-1.2	LM4041AICT-1.2	SOT323-5L	Fixed	1.225	0.1	100	-----	0.4/1	-40 to +85	2.23	1.80	1.62
511-LM4041AILT-1.2	LM4041AILT-1.2	SOT-23-3	Fixed	1.225	0.1	120	0.025	0.4/1	-40 to +85	2.23	1.80	1.62
511-LM4041BILT-1.2	LM4041BILT-1.2	SOT23-3L	Fixed	1.225	0.2	100	-----	0.4/1	-40 to +85	1.79	1.44	1.29
511-LM4041DICT-1.2	LM4041DICT-1.2	SOT-23-5	Fixed	1.225	1	120	0.025	0.4/1	-40 to +85	1.11	.88	.776
511-LM4041DILT-1.2	LM4041DILT-1.2	SOT-23-3	Fixed	1.225	1	120	0.025	0.4/1	-40 to +85	1.11	.88	.776

## PUSH-BUTTON SMART RESET™ ICs

Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Supply Current (Typ.) (mA)	V <sub>RST</sub> (V)	t <sub>SR</sub> User Prog. 65kΩ Input Pull-Up	Output Type	Reset Time-Out Period	Operating Temperature Range (°C)	Price Each			
									1	10	100	
Single												
511-STM6519APAAUB6F	STM6519APAAUB6F	uDFN-6L	0.0004	5.5	0.5 to 10s	Open-drain, active-low	Factory Prog.	-40 to +85	.81	.76	.70	
511-STM6519APBBUB6F	STM6519APBBUB6F	uDFN-6L	0.0004	5.5	0.5 to 10s	Open-drain, active-low	Factory Prog.	-40 to +85	.81	.76	.70	
511-STM6519APARUB6F	STM6519APARUB6F	uDFN-6L	0.0004	5.5	1 to 7.5s	Open-drain, active-low	User Prog.	-40 to +85	.76	.67	.62	
511-STM6519ACARUB6F	STM6519ACARUB6F	uDFN-6L	0.0004	5.5	1 to 1.5s	Open-drain, active-low	User Prog.	-40 to +85	.76	.67	.62	
511-STM6519AHARUB6F	STM6519AHARUB6F	uDFN-6L	0.0004	5.5	1 to 4.0s	Open-drain, active-low	User Prog.	-40 to +85	.76	.67	.62	
511-STM6519ALARUB6F	STM6519ALARUB6F	uDFN-6L	0.0004	5.5	1 to 6.0s	Open-drain, active-low	User Prog.	-40 to +85	.76	.67	.62	
511-STM6519AUARUB6F	STM6519AUARUB6F	uDFN-6L	0.0004	5.5	1 to 10.0s	Open-drain, active-low	User Prog.	-40 to +85	.76	.67	.62	
511-STM6524AHARDL6F	STM6524AHARDL6F	uDFN-6	1.5	1.575	0.5 to 10s	Open-drain, active-low	User Prog.	-40 to +85	1.02	.95	.84	
511-STM6524ALARDL6F	STM6524ALARDL6F	uDFN-6	1.5	1.575	0.5 to 10s	Open-drain, active-low	User Prog.	-40 to +85	1.02	.95	.84	
511-STM6524APARDL6F	STM6524APARDL6F	uDFN-6	1.5	1.575	0.5 to 10s	Open-drain, active-low	User Prog.	-40 to +85	1.02	.95	.84	
Dual												
511-STM6503REAADG6F	STM6503REAADG6F	TDFN-8	0.0004	1.575	2 to 10s	Open-drain, active-low	User Prog.	-40 to +85	1.60	1.42	1.13	
511-STM6503SEAADG6F	STM6503SEAADG6F	TDFN-8	0.0004	1.575	2 to 10s	Open-drain, active-low	User Prog.	-40 to +85	1.60	1.42	1.13	
511-STM6524AUARDL6F	STM6524AUARDL6F	uDFN-6	0.0011	5.5	0.5 to 10s	Open-drain, active-low	Factory Prog.	-40 to +85	.95	.85	.78	
511-STM6524AHARDL6F	STM6524AHARDL6F	uDFN-6	0.0011	5.5	1 to 4.0s	Open-drain, active-low	Factory Prog.	-40 to +85	1.02	.95	.84	
511-STM6524ALARDL6F	STM6524ALARDL6F											