

Digital Potentiometers and Supervisor Circuits

ON Semiconductor®



Analog ICs

ON Semiconductor

ON SEMICONDUCTOR DIGITALLY PROGRAMMABLE POTENTIOMETERS (DPP™)

Features:

- 32, 64, 100, 128, 256 position linear taper
- Nonvolatile wiper position storage
- Low power CMOS technology
- Resistor values: 10kΩ, 50kΩ and 100kΩ

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Supply Range (V)	Type	Taps	Resistance Option (kΩ)	Buffered Wiper	Digital Interface	Supply Type	Price Each			
Mfr.	Mfr. Part No.									1	25	100	250
◆	698—CAT5114V1-10-GT3	SOIC-8	2.5 to 6.0	Single	32	10	No	Up/Down	Single	1.68	1.34	1.26	1.18
	698—CAT5114L-00-G	PDIP-8	2.5 to 6.0	Single	32	100	No	Up/Down	Single	1.22	1.19	1.14	1.11
	698—CAT5115L-00-G	PDIP-8	2.5 to 6.0	Single	32	100	No	Up/Down	Single	1.72	1.68	1.42	1.33
◆	698—CAT5112V1-00-GT3	SOIC-8	2.5 to 6.0	Single	32	100	Yes	Up/Down	Single	2.44	2.39	2.26	2.02
	698—CAT5113L-01-G	PDIP-8	2.5 to 6.0	Single	100	1	No	Up/Down	Single	1.95	1.90	1.82	1.76
	698—CAT5113L-10	PDIP-8	2.5 to 6.0	Single	100	10	No	Up/Down	Single	2.39	2.18	2.05	1.82
	698—CAT5113L-10-G	PDIP-8	2.5 to 6.0	Single	100	10	No	Up/Down	Single	1.95	1.90	1.82	1.76
◆	698—CAT5113V1-10-GT3	SOIC-8	2.5 to 6.0	Single	100	10	No	Up/Down	Single	2.70	2.16	2.03	1.89
◆	698—CAT5132Z1-10-G	MSOP-10	2.7 to 16	Single	128	10	Yes	I2C	Dual	3.61	2.90	2.64	2.19
◆	863—CAT5140Z1-00-GT3	MSOP-8	2.5 to 5.5	Single	256	100	Yes	I2C	Single	8.91	7.43	5.64	4.23
◆	863—CAT5271Z1-50-GT3	MSOP-10	2.7 to 5.5	Dual	256	50	No	I2C	Single	3.24	2.88	2.64	2.40
◆	863—CAT5271Z1-50-GT3	MSOP-10	2.7 to 5.5	Dual	256	50	No	I2C	Single	3.24	2.88	2.64	2.40
◆	698—CAT5251Y1-50	TSSOP-24	2.5 to 6.0	Quad	256	50	Yes	SPI	Single	7.30	5.84	5.46	5.11
◆	698—CAT5259Y1-50	TSSOP-24	2.5 to 6.0	Quad	256	50	Yes	I2C	Single	7.30	5.84	5.46	5.11

ON SEMICONDUCTOR MP SUPERVISORY CIRCUITS WITH WATCHDOG TIMER AND SERIAL EEPROM

Supervisory Functions:

- Power Supply Voltage Supervisor
 - Issues reset signal if power supply fails or is out of tolerance
 - Insures μ C operates with power supply voltage
 - Power-On reset and brownout protection
- Watchdog Timer (CAT1161, CAT1163)
 - Restarts microcontroller/ASIC that has stalled because of a hardware or software failure

Memory Functions:

- 16K bit EEPROM Memory
- 400kHz I²C Interface
 - 10ms maximum write time
 - 16byte page write buffer
 - Hardware write protection

Supervisor with Memory Advantages:

- Replaces two ICs with one
- Reduced PCB footprint by 50%
- Low cost

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Reset Level (V)	Operating Voltage	Temperature Range (°C)	Price Each			
Mfr.	Mfr. Part No.					1	25	100	250
uP Supervisory Circuits and 16K-bit I ² C Serial EEPROM Memory, Write Protect, Manual Reset, Watchdog Timer on SDA									
◆	698—CAT1161WI-42	SOIC-8	4.2	2.5 to 6.0	-40 to +85	1.12	.89	.84	.78
uP Supervisory Circuits and 16K-bit I ² C Serial EEPROM Memory, Write Protect, Manual Rest									
◆	698—CAT1162WI-45	SOIC-8	4.5	2.5 to 6.0	-40 to +85	1.11	.88	.837	.785

ON SEMICONDUCTOR MP SUPERVISORS WITHOUT EEPROM MEMORY

◆ Surface Mount Device



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Reset Level (V)	Watchdog Timer	Manual Reset	Output Polarity	Price Each			
Mfr.	Mfr. Part No.						1	25	100	250
◆	698—CAT810TTBI-GT3	SOT-23	3.08	No	Yes	Push-Pull, Active HIGH	.59	.57	.554	.491
◆	698—CAT809RTBI-GT3	SOT-23	2.63	No	Yes	Push-Pull, Active LOW	.60	.55	.532	.471
◆	698—CAT809LTBI-GT3	SOT-23	4.63	No	Yes	Push-Pull, Active LOW	.60	.55	.532	.471
◆	698—CAT809STBI-GT3	SOT-23	2.93	No	Yes	Push-Pull, Active LOW	.60	.55	.532	.471
◆	863—CAT885Z1-SA-GT3	MSOP-8	2.87/1.68	Yes	Yes	Open-Drain, Active LOW	1.92	1.72	1.53	1.34
◆	698—CAT823TTDI-G	TSOP-23-5	3.08	No	Yes	Push-Pull, Active LOW	.97	.74	.66	.572
◆	698—CAT1232LPV-G	SOIC-8	4.37/4.62	Yes	Yes	Push-Pull, Active LOW/HIGH	.79	.63	.59	.55
◆	698—CAT1832V-G	SOIC-8	2.55/2.88	Yes	Yes	Push-Pull, Active LOW/HIGH	1.13	.90	.789	.74
◆	698—CAT803STBI-GT3	SOT-23	2.93	No	No	Open-Drain, Active LOW	.89	.85	.798	.726
◆	863—CAT803SDI-GT3	SC-70-3	2.93	No	No	Open-Drain, Active LOW	2.63	2.18	1.66	1.24
◆	863—MAX803SQ293D3T1G	SC-70-3	2.93	No	No	Open-Drain, Active LOW	.69	.57	.447	.363
◆	863—MAX803SQ308T1G	SC-70-3	3.08	No	No	Open-Drain, Active LOW	.69	.57	.447	.363
◆	698—CAT809STBI-T	SOT-23	2.93	No	No	Push-Pull, Active LOW	.40	.31	.28	.236
◆	863—MAX809SN293D1T1G	SOT-23	2.93	No	No	Push-Pull, Active LOW	.65	.54	.426	.347
◆	863—MAX810MTRG	SOT-23	4.38	No	No	Push-Pull, Active HIGH	.45	.377	.316	.266
◆	698—CAT811STBI-GT3	SOT-143	2.93	No	Yes	Push-Pull, Active LOW	.65	.45	.389	.336
◆	698—CAT811TTBI-T3	SOT-143	3.08	No	Yes	Push-Pull, Active LOW	.42	.33	.318	.289
◆	698—CAT812LTBI-GT3	SOT-143	4.63	No	Yes	Push-Pull, Active HIGH	.65	.45	.389	.336
◆	863—NCP361SNT1G	TSOP-5	2.0	No	No	PFET Driver	.52	.48	.459	.414

ON SEMICONDUCTOR DC-DC CONTROLLER



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Input Voltage (V)	Temperature Range (°C)	Supply Current (mA)(typ)	Output Current (mA)	Output Voltage (V)	Oscillation Frequency (kHz)(typ)	Topography	Price Each			
Mfr.	Mfr. Part No.									1	25	100	500
	863—NCP5380MNR2G	QFN-32	0.3	0 to +85	4.2	-5 μ A	1.08 to 1.35	390	Buck	1.39	1.15	.96	.887
	863—ADP3211AMNR2G	QFN-32	19	-40 to +100	6	10	1.1	400	Buck	1.31	1.09	.908	.838
	863—NCP5395TMNR2G	QFN-48	3	0 to +125	40	1	75mV	1100	2/3/4 Phase Buck	1.56	1.48	1.40	1.24
	863—ADP3212MNR2G	QFN-48	8 to 19	-40 to +100	7	52A	0.9512	300	Buck	2.00	1.80	1.60	1.00
	863—ADP3211MNR2G	QFN-32	3.3 to 22	-40 to +100	6	10	1.1	400	Buck	1.31	1.09	.908	.838
	863—NCP5392TMNR2G	QFN-EP	3	0 to +85	-	-	50mV	1000	2/3/4 Phase Buck	1.17	1.11	1.05	.99
	863—ADP3208CJCPZ-RL	LFCSP-EP	3.3 to 22	-10 to +100	6	40A	10mV	300	Buck	1.43	1.25	1.10	.963
	863—ADP3208DJCPZ-RL	LFCSP-EP	3.3 to 22	-10 to +100	6	40A	10mV	300	Buck	1.26	1.20	1.13	1.00
	863—NCP5392PMNR2G	QFN-EP	3	0 to +85	-	-	50mV	1000	2/3/4 Phase Buck	1.20	1.16	1.10	.985
	863—ADP3290JCPZ-RL	LFCSP-EP	-0.3 to +6.3	0 to +85	25	500 μ A	0.5 to 1.6	450	4 Phase Buck	1.56	1.51	1.43	1.28
	863—NCP5212AMNXTG	QFN-16	4.5 to 27	-40 to 150	35 μ A	35 μ A	0.8 to 3.3	-	Step-down	.54	.52	.499	.472
	863—NCP3218MNR2G	QFN-48	3.3 to 22	-40 to +100	7	52A	1.05	1000	Buck	1.80	1.71	1.62	1.35
	863—ADP3209DJCPZ-RL	LFCSP-EP	19	0 to 100	5	15	1.174	390	Buck	1.26	1.20	1.13	1.00
	863—ADP3293JCPZ-RL	LFCSP-EP	12	0 to +85	25	500 μ A	0.5 to 1.6	450	2/3 Phase Buck	1.27	1.24	1.18	1.11
	863—NCP5395MNR2G	QFN-48	3	0 to +125	40	-	75mV	1100	2/3/4 Phase Buck	1.87	1.78	1.69	1.60

ON SEMICONDUCTOR DC-DC CONVERTERS

Features:

- 100mA output current
- Charge pump: no inductor required

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Supply Voltage (V)	Temperature Range (°C)	Supply Current (mA) (typ)	Output Current (mA) (min)	Oscillation Frequency (kHz) (typ)	Power Efficiency (%)	Voltage Conversion Eff. % (typ)	Price Each			
Mfr.	Mfr. Part No.									1	25	100	250
◆	698—CAT660EVA	SOIC-8	1.5 to 5.5	-40 to +85	1	100	10-80KHz	88-98	99.9	1.83	1.72	1.61	1.48
◆	863—CAT3200Z1-GT3	MSOP-8	5.0	-40 to +85	1.6	200	2MHz	80	-	1.17	1.11	1.05	.99
◆	863—NCP1522BSNT1G	TSOP-5	2.7 to 5.5	-40 to +85	-	600	3000	93	93	.97	.83	.704	.583
◆	863—NCP3125ADR2G	SOIC-8	4.5 to 13.2	-40 to +125	10	4000	350KHz	80	93	.80	.76	.68	.66
◆	863—NCP3126ADR2G	SOIC-8	4.5 to 13.2	-40 to +125	10	3000	350KHz	80	93	.70	.66	.595	.578
◆	863—NCP3127ADR2G	SOIC-8	4.5 to 13.2	-40 to +125	10	2000	350KHz	80	93	.60	.54	.48	.42
◆	863—NCP1529MU12TBG	UDFN-6	2.7 to 5.5	-40 to +85	0.028	1000	1.7MHz	100	96	.69	.66	.626	.555
◆	863—NCP1529MU135TBG	UDFN-6	2.7 to 5.5	-40 to +85	0.028	1000	1.7MHz	100	96	.95	.91	.756	.638
◆	863—NCP8851BDBR2G	TSSOP-20	-0.3 to 40	-40 to 150	3.2	75	153-575KHz	-	-	2.80	2.73	2.59	2.45