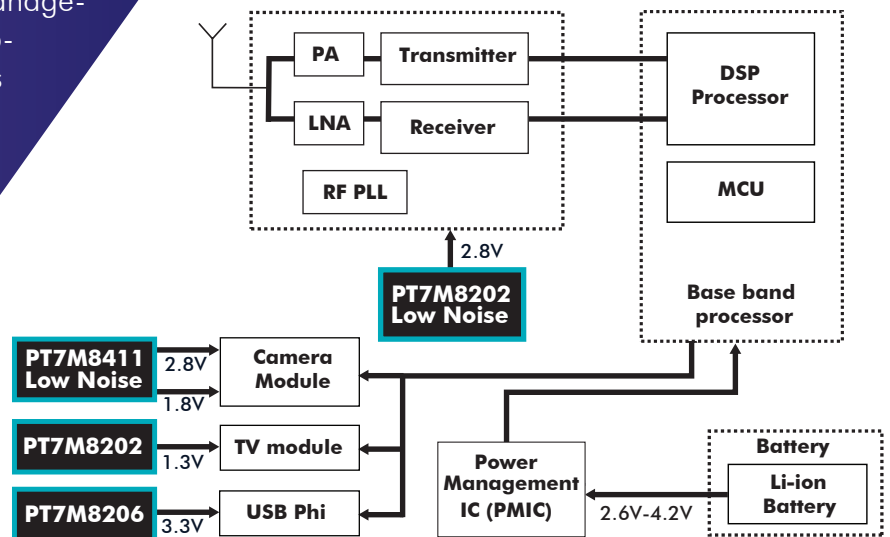


POWER MANAGEMENT

Pericom's growing portfolio Power Management Solutions includes Low Drop Out (LDO) Voltage Regulators, uP Supervisors, and Power Management Solutions for Portable/Low Power Applications. These products offer customers superior performance in small packages to allow energy efficient power system design. Value-add features significantly reduce current consumption and provide design flexibility for product differentiation.

LDO VOLTAGE REGULATOR APPLICATION FOR ULTRA MOBILITY



LDO Voltage Regulators

LDO channel	Part Number	Major Applications	Key Features	VDROP(typ.) mV@mA	Package
Single	PT7M8201	Handheld Devices	1.2V to 3.4V output, 300mA LDO Regulator	190mV @ 300mA	SOT23-3L, SOT23-5L, SOT89-3L, SOT89-5L
	PT7M8202	Handheld Devices, RF Applications	Ultra-Low-Noise, RF. 300mA LDO Regulator	270mV @ 300mA	SOT23-5L, SC70-5L
	PT7M8205	Handheld Devices	1.2V to 3.4V output , Low-Noise, 300mA LDO Regulator	270mV @ 300mA	SOT23-3L
	PT7M8206	Handheld Devices	1.2V to 3.4V output , Low-Noise, 300mA LDO Regulator	270mV @ 300mA	SOT23-5L, SC70-5L
	PT7M8208	Mobile Phone, Handheld Devices	Ultra-small package, 1mmx1mm UDFN, 300mA LDO Regulator	270mV @ 300mA	UDFN1x1-6L
	PT7M8220B	Wireless LAN , STB , HDD, DVD Player	Low Dropout 600mA Fixed Voltage Linear Regulator	150mV @ 300mA	SOT23-5L, SOT89-3L, SOT89-5L
	PT7M8221B	Wireless LAN , STB , HDD, DVD Player	Low Dropout 1000mA Fixed Voltage Linear Regulator	150mV @ 300mA	SOT89-3L, SOT89-5L, SOT223-3L, DFN 3x3-8L
Dual	PT7M8411	Handheld Devices, Camera	Dual, 300mA LDO Regulator	210mV @ 300mA	TSOT23-6L, SOT23-6L
	PT7M8423	Handheld Devices, Camera	Dual, 200mA LDO Regulator	150mV @ 200mA	SOT23-6L

300mA LDO Major Applications: Mobile Phone, PND, DSC, MID, STB, E-dictionary, E-Book, PC-Camera

600mA/1A LDO Major Applications: Hard Disk Driver, Wifi Card, DVD Player

POWER MANAGEMENT

µP Supervisory Products

Part Number	Reset Active Low or High	Reset Time	Watch dog Time (s)	Voltage Detection Threshold	Manual Reset	Package	NOTE
PT7A751xW/P	Low	200ms	1.6s	1.25V	Yes	SOIC-8 PDIP-8	Suffix (x) definition Reset Threshold, 1: 4.63V 2: 4.38V 3: 3.08V 4: 2.93V 5: 2.63V
PT7A752xW/P	High	200ms	1.6s	1.25V	Yes		
PT7A753xW/P	Low&High	200ms	-	1.25V	Yes		

Part Number	/RESET output		RESET output (push-pull)	Manual Reset	Power Fail Detector	Watch-dog Input	Reset Time	Package	Remark
	Push-Pull	Open-Drain							
PT7M7803xT	-	√	-	-	-	-	200ms	SOT23-3	Suffix (x) definition Reset Threshold, L:4.63V M:4.38V J:4.00V T:3.08V S:2.93V R:2.63V Z:2.32V
PT7M7809xT	√	-	-	-	-	-	200ms	SOT23-3	
PT7M7810xT	-	-	√	-	-	-	200ms	SOT23-3	
PT7M7811xTA	√	-	-	√	-	-	200ms	SOT23-5	
PT7M7812xTA	-	-	√	√	-	-	200ms	SOT23-5	
PT7M7811xTB	√	-	-	√	-	-	200ms	SOT143-4	
PT7M7812xTB	-	-	√	√	-	-	200ms	SOT143-4	
PT7M7823xTA	√	-	-	√	-	√	200ms	SOT23-5	
PT7M7824xTA	√	-	√	-	-	√	200ms	SOT23-5	
PT7M7825xTA	√	-	√	√	-	-	200ms	SOT23-5	

Part Number	Output			Voltage Detectors		Threshold	Package
	Open-Drain		Push-Pull	Single	Dual	User adjustable	
	Active high	Active low	Active low				
PT7M7433TA	-	-	√	√	-	√	SOT23-5
PT7M7434TA	-	√	-	√	-	√	SOT23-5
PT7M7435TA	√	-	-	√	-	√	SOT23-5
PT7M7436TA	-	-	√	-	√	√	SOT23-6
PT7M7437TA	-	√	-	-	√	√	SOT23-6
PT7M7438TA	√	-	-	-	√	√	SOT23-6

Part Number	Reset Output	Suffix (xx) definition Reset Threshold	Reset Time	Package
PT7M1818-xx#	Bi-direct, Active low	xx=20:2.5V; xx=10:2.9V; xx=5:3.0V;	200ms	SOT23-3;
PT7M1813-xx#	Bi-direct, Active low	xx=15:4.1V; xx=10:4.3V; xx=5:4.6V.	200ms	TO92
PT7M1233-xx#	Bi-direct, Active low	xx=15:4.1V; xx=10:4.3V; xx=5:4.6V	200ms	TO92
PT7M1233A-xx#	Bi-direct, Active low	xx=10:2.88V; xx=5:2.72V	200ms	SOT223

Part Number	Reset Output					Threshold	Reset Time	Package
	Open-Drain		Push-Pull		Bi-direct			
	Active high	Active low	Active high	Active low	Active low			
PT7M64xxCL#	-	-	-	√	-	1.8V to 5.0V in 100mV increments	200ms	SOT23-3
PT7M64xxCH#	-	-	√	-	-		200ms	SOT23-5
PT7M64xxNL#	-	√	-	-	-		200ms	SC70-3
PT7M64xxBL#	-	-	-	-	√		200ms	SC70-4, TO92

Part Number	Reset Output				Threshold	Package
	Open-Drain		Push-Pull			
	Active high	Active low	Active high	Active low		
PT7M61xxCL#	-	-	-	√	1.8V to 5.0V in100mV increments	SOT23-3, SOT23-5, SC70-4, TO92
PT7M61xxCH#	-	-	√	-		
PT7M61xxNL#	-	√	-	-		
PT7M610xCL#	-	-	-	√	x=1: 0.1V x=2: 0.2V Internal Threshold	SC70-4 SOT23-5 TO94
PT7M610xCH#	-	-	√	-		
PT7M610xNL#	-	√	-	-		

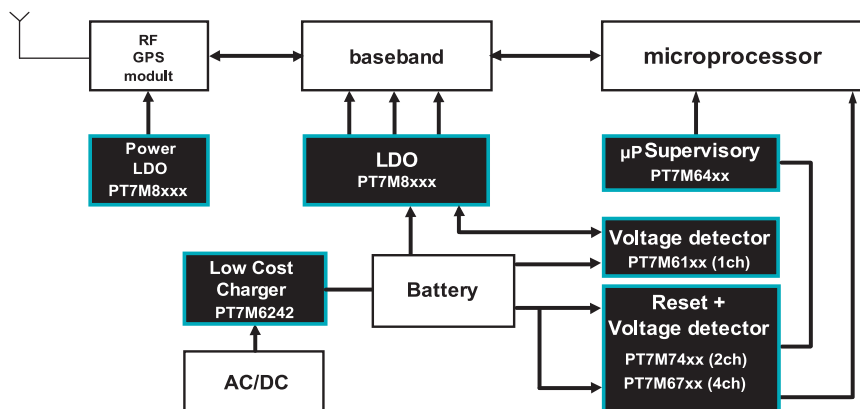
µP Supervisory Products

Part Number	Nominal Input Voltage				Supply Tolerance(%)	Package	NOTE
	IN1 (V)	IN2 (V)	IN3 (V)	IN4 (V)			
PT7M6709AU	5	3.3	2.5	Adj*	10	MSOP-10	*Adjustable voltage based on 0.62V internal threshold. External threshold voltage can be set using an external resistor-divider.
PT7M6709BU	5	3.3	2.5	Adj*	5	MSOP-10	
PT7M6709CU	5	3.3	1.8	Adj*	10	MSOP-10	
PT7M6709DU	5	3.3	1.8	Adj*	5	MSOP-10	
PT7M6709EU	Adj*	3.3	2.5	1.8	10	MSOP-10	
PT7M6709FU	Adj*	3.3	2.5	1.8	5	MSOP-10	
PT7M6709GU	5	3.3	Adj*	Adj*	10	MSOP-10	
PT7M6709HU	5	3.3	Adj*	Adj*	5	MSOP-10	
PT7M6709IU	Adj*	3.3	2.5	Adj*	10	MSOP-10	
PT7M6709JU	Adj*	3.3	2.5	Adj*	5	MSOP-10	
PT7M6709KU	Adj*	3.3	1.8	Adj*	10	MSOP-10	
PT7M6709LU	Adj*	3.3	1.8	Adj*	5	MSOP-10	
PT7M6709MU	Adj*	3	Adj*	Adj*	10	MSOP-10	
PT7M6709NU	Adj*	3	Adj*	Adj*	5	MSOP-10	
PT7M6709OU	Adj*	Adj*	Adj*	Adj*	N/A	MSOP-10	

Part Number	Nominal Input Voltage				Supply Tolerance(%)	Package	NOTE
	Vcc (V)	PF11 (V)	PF12 (V)	PF13 (V)			
PT7M6714AU	5	Adj*	Adj*	Adj*	10	MSOP-10	*Adjustable voltage based on 0.62V internal threshold. External threshold voltage can be set using an external resistor-divider.
PT7M6714BU	5	Adj*	Adj*	Adj*	5	MSOP-10	
PT7M6714CU	3.3	Adj*	Adj*	Adj*	10	MSOP-10	
PT7M6714DU	3.3	Adj*	Adj*	Adj*	5	MSOP-10	

Part Number	Reset Output				Reset Time	Package	NOTE
	Open-Drain		Push-Pull				
	Active high	Active low	Active high	Active low			
PT7M6832xDx#	-	-	-	√	Suffix "Dx" refer to Reset Time D0: 0.07ms D3: 210ms D4: 1680ms	#=#C4 : SC70-4 #=#TA3: SOT23-3	PT7M6832-PT7M6837: (x) refer to voltage range, W:1.665v, V:1.575v, I:1.388v,, H:1.313v G:1.11v, F:1.050v PT7M6838-PT7M6840: Adjustable voltage based on 0.444V internal threshold
PT7M6835xDx#	-	-	-	√			
PT7M6838Dx#	-	-	-	√			
PT7M6833xDx#	-	-	√	-			
PT7M6836xDx#	-	-	√	-			
PT7M6839Dx#	-	-	√	-			
PT7M6834xDx#	-	√	-	-			
PT7M6837xDx#	-	√	-	-			
PT7M6840Dx#	-	√	-	-			

µP Supervisory products are ideal for the following applications: GPS, DPF, Power Meter, PMP/DSC/MP3, Portable DVD, Digital Still Camera/PVR, DTV



SUPERVISORY SOLUTIONS + LDO, VOLTAGE DETECTORS AND CHARGER FOR GPS APPLICATION

USB Power Switch

Part Number	Description	Protection	ILIM-Short (min.) (A)	ILIM-Short (typ) (A)	Package Size
PI5PD2051B	70mΩ, 0.75A Current-Limited, Power-Distribution Switches	OCP, OTP, UVLO	0.75	1	SOT23/5
PI5PD2041B	70mΩ, 0.75A Current-Limited, Power-Distribution Switches	OCP, OTP, UVLO	0.75	1	SOT23/5
PI5PD2061	70mΩ, 1.1A Current-Limited, Power-Distribution Switches	OCP, OTP, UVLO	1.1	1.5	SOT23/5, SOP/8
PI5PD2065	70mΩ, 1.1A Current-Limited, Power-Distribution Switches	OCP, OTP, UVLO	1.1	1.5	SOT23/5, SOP/8
PI5PD2068	70mΩ, 1.6A Current-Limited, Power-Distribution Switches	OCP, OTP, UVLO	1.6	2.1	SOP/8, EP-MSOP/8
PI5PD2069	70mΩ, 1.6A Current-Limited, Power-Distribution Switches	OCP, OTP, UVLO	1.6	2.1	SOP/8, EP-MSOP/8

Applications

- » Laptop, Motherboard PC
- » USB Bus/Self Powered Hubs
- » TV and Set-top BOX Power switch
- » USB Peripherals
- » Battery-Powered Equipment
- » Hot-Plug Power Supplies

Li-ion, Li-Polymer Charger

Part Number	Description	Protected Vin (max) (V)	Charging Vin (max) (V)	Charger (V)	Max. Ichg (A)	Oper. Temp. (°C)	Package
PT8A2803	USB-Powered, 500mA Li-Ion Charger, Internal MOSFET, no need Block Diode, Thermal Regulation, Reduce Charging Current while USB Port Voltage Pitch-Fall	6.5	5.5	4.1, 4.2V, 4.36	0.5	-40 to +85	8-TDFN
PT8A2823	USB/AC Adapter detection, 1A Li-Ion Charger, Internal MOSFET, no need Block Diode, Thermal Regulation, Auto USB/Adapter Detection, Reduce Charging Current while USB Port Voltage Pitch-Fall	6.5	5.5	4.1, 4.2V, 4.36	1	-40 to +85	10-TDFN

Li-ion Charger Features Summary	PT8A2803	PT8A2823
+/-0.35% Factory-Trimmed Voltage Accuracy (+/-1% All Temp)	✓	✓
Integrated MOSFET	✓	✓
Voltage Options 4.1V, 4.2V, 4.36V	✓	✓
Max. Programmable Charge Current	500mA	1A
End-of-Charge Current Selection	✓	✓
Recharge Algorithm	Current	Current
Charge-LED Indicator	✓	✓
Power-good LED Indicator	✓	✓
Bat-low Indicator (Discharge Function)	-	-
Auto Charge-Current Reduction when Source Power Pitch-Fall (USB Mode)		✓
Auto USB/Adapter Detection	-	✓