

DC/DC Converters - Step Up

Part #	V _{IN} (min)	V _{IN} (max)	V _{OUT} (min) (V)	V _{OUT} (max) (V)	I _{OUT} (mA)	f _{OSC} (kHz)	I _Q (typ) (μA)	Key Features
AAT1210	2.7	5.5	V _{IN}	18	900	2000	40	High Power, 900mA @ 5V Step-Up Converter, Small Solution; True Load Disconnect
AAT1217*	0.5	V _{OUT}	2.5	5.5	600	1200	300	600mA @ 5V Output Step-Up Converter
AAT1218*	0.5	V _{OUT}	2.5	5.5	1000	1200	300	1A @ 5V Output
AAT1219*	2.4	V _{OUT} +0.25	3.0	5.0	2000 1200	1200	58	High Current Step-Up Converter with Adjustable Current Limit
AAT1230	2.7	5.5	V _{IN}	18	100	2000	40	Fast Transient Response with Hysteretic Control; True Load Disconnect Feature; 100mA @ 18V Output
AAT1232	2.7	5.5	V _{IN}	24	100	2000	40	Compact 24V 100mA Step-Up Converter; True Load Disconnect Feature
AAT1275*	2.7	5	V _{IN}	5.5	500	2000	100	High frequency Step-Up to 5V / 500mA Output Capability with Current Limiting Load Switch for USB Port Applications
AAT1275A	2.7	5	V _{IN}	5.5	500	2000	100	Step-Up Converter with USB Power Switch
AAT1276*	2.7	5	V _{IN}	5.5	500	2000	45	High frequency Step-Up to 5V / 500mA Current Limited output, High-Load Low Frequency Lock-out
AAT2215	2.4	5.25	3	5.5	3000	600	55	True Load Disconnect, Reverse Current Block, Internal Compensation, and Programmable Current Limit
AAT3125	2.7	5.5	Fixed 5.0	Fixed 5.0	100	750	1000	USB OTG Charge Pump

DC/DC Converters - Step Down

Part#	V _{IN} (min) (V)	V _{IN} (max) (V)	V _{OUT} (min) (V)	V _{OUT} (max) (V)	I _{OUT} (mA)	f _{OSC} (kHz)	I _Q (typ) (μA)	Key Features
AAT1106*	2.5	5.5	0.6	V _{IN}	600	1500	270	600mA Step-Down Converter, Low Ripple, Small External Components
AAT1110*	2.7	5.5	0.6	V _{IN}	800	1400	27	Fast Transient, 800mA Step-Down Converter in Tiny Package
AAT1112*	2.7	5.5	0.6	V _{IN}	1500	1400	42	1.3MHz 1.5A Step-Down DC/DC Converter
AAT1120	2.7	5.5	0.6	V _{IN}	500	1500	30	500mA Step-Down Converter
AAT1121*	2.7	5.5	0.6	V _{IN}	250	1500	30	1.5MHz 250mA Step-Down DC/DC Converter in 2x2mm Package
AAT1123*	2.7	5.5	0.6	0.6	600	1000	25	1MHz 600mA Step-Down DC/DC Converter
AAT1126*	2.7	5.5	0.6	0.6	600	1000	25	1MHz 600mA Step-Down DC/DC Converter
AAT1130	2.7	5.5	0.6	18	500	2500	60	2.5MHz 500mA Step-Down DC/DC Converter
AAT1138*	2.5	5.5	0.6	V _{IN}	2000	1200	300	2A Step-Down Converter with Adjustable Input Current Limit
AAT1141*	2.7	5.5	0.6	V _{IN}	600	2000	35	2.0MHz 600mA Step-Down DC/DC Converter
AAT1142*	2.7	5.5	0.6	2	800	2200	35	I ² C Digital Control
AAT1143*	2.7	5.5	0.6	0.6	400	1000	25	Fast Transient Response 1.4MHz 600mA Step-Down DC/DC Converter
AAT1145*	2.5	5.5	0.6	V _{IN}	1500	1500	300	800mA Voltage-Scaling Step-Down Converter; I ² C and S ² Cwire Programmability
AAT1146*	2.7	5.5	0.6	V _{IN}	400	1400	27	1.4MHz 400mA Step-Down DC/DC Converter
AAT1149*	2.7	5.5	1	V _{IN}	400	3000	45	Fast Transient Response 3.0MHz 400mA Step-Down DC/DC Converter
AAT1149A*	2.2	5.5	1.875	1.875	400	2200	3000	Fast Transient, Low Noise Forced PWM, Fixed Frequency PWM Operation
AAT1149B*	2.2	5.5	1.8	1.8	400	2200	45	High Frequency, Tiny Inductor
AAT1150	2.7	5.5	1	4.2	1000	1000	160	1A fixed Frequency
AAT1151*	2.7	5.5	1	4.2	700	850	210	700mA High Efficiency Light Load
AAT1153*	2.5	5.5	0.6	V _{IN}	2000	1200	300	2.0A Step-Down Converter
AAT1154	2.7	5.5	1	4.2	3000	1000	630	3A Fixed Frequency, Integrated Power Device
AAT1155	2.7	5.5	1	4.2	2500	1000	630	2.5A Fixed Frequency, Integrated Power Device
AAT1157*	2.7	5.5	0.8	0.8	1200	1000	160	1MHz 1.2A Step-Down Converter
AAT1160*	4.0	13.2	0.6	V _{IN}	3000	800	150	12V, 3.0A Step Down DC/DC Converter
AAT1161*	4.0	13.3	0.6	V _{IN}	3000	800	150	12V, 3.0A Step Down DC/DC Converter
AAT1162*	4.0	13.4	0.6	V _{IN}	1500	800	150	12V, 1.5A Step-Down DC/DC Converter

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DC/DC Converters - Step Down (cont'd)

Part#	V _{IN} (min) (V)	V _{IN} (max) (V)	V _{OUT} (min) (V)	V _{OUT} (max) (V)	I _{OUT} (mA)	f _{OSC} (kHz)	I _Q (typ) (μA)	Key Features
AAT1171*	2.5	5.5	0.6	3.6	600	2000	420	600mA Voltage-Scaling Step-Down DC/DC Converter
AAT1184	6.0	24	1.5	5.5	1200	490	600	High Voltage Step-Down Regulator
AAT1185	6.0	24	1.5	5.5	10000	490	1000	High Voltage Step-Down Controller
AAT1189	6.0	24	1.5	5.5	2500	490	600	High Voltage Step-Down Regulator
AAT1190	4.5	28	0.9	0.8 x V _{IN}	6000	450	1600	28V, 6A Synchronous Step-down Controller with Soft Start, External Compensation
AAT1193	4.5	28	0.9	0.8 x V _{IN}	6000	450	1600	28V, 3A Non-Synchronous Step-down Converter with Soft Start, External Compensation
AAT2113B*	2.7	5.5	1	2.5	1500	3300	55	3MHz, Fast Transient 1.5A Converter
AAT2114A*	2.7	5.5	1	V _{IN}	2500	3000	70	3MHz, Fast Transient 2.5A Converter
AAT2120*	2.7	5.5	0.6	V _{IN}	500	1800	45	500mA Low Noise Converter
AAT2138*	2.7	5.5	3.0	V _{IN}	2500	3000	90	High Current Step-Down Converter with High-Precision Programmable Current Limited
AAT2146*	2.7	5.5	0.6	V _{IN}	600	2000	37	Low Noise, Fast Transient 600mA Step-Down Converter
AAT2148*	2.7	5.5	0.6	V _{IN}	1000	2000	37	Low Noise, Fast Transient 1A Converter
AAT2153*	2.7	5.5	0.6	V _{IN}	2500	1400	42	2.5A Low Noise Step-Down Converter
AAT2158*	2.4	5.5	0.6	V _{IN}	1500	1400	42	1.5A Low Noise Step-Down Converter
AAT2510*	2.7	5.5	0.6	V _{IN}	400/ch	1000	25/ch	Dual 400mA, 1MHz Step-Down DC/DC converter
AAT2511*	2.7	5.5	0.6	V _{IN}	600/ch	1000	25/ch	Dual 600mA, 1MHz Step-Down DC/DC Converter
AAT2512*	2.7	5.5	0.6	V _{IN}	400/ch	1400	27/ch	Dual 400mA, 1.4MHz Step-Down DC/DC Converter with Fast Transient Response
AAT2513*	2.7	5.5	0.6	V _{IN}	600/ch	1700	60	Dual 600mA Step-Down Converter with F _{OSC} Synchronization Option
AAT2514*	2.7	5.5	0.6	V _{IN}	600/ch	1500	500	Dual Channel 600mA Step-Down Converter
AAT2515*	2.7	5.5	0.6	V _{IN}	600/ch	1400	27	Dual 600mA Fast Transient High Frequency Step-Down Converter
AAT2522*	2.7	5.5	0.6	V _{IN}	3000; 3000	1400	90	Dual High-Current, Low-Noise, Step-Down Regulators
AAT2687	6	24	1.5	5.5	4500; LDO 600	490	600	PMIC Solution for 24V Systems with 2 High-Performance Step-Down Converters
AAT2688	6	24	0.8	5.5	4500; LDO 600	490	600	4.5A PMIC Solution for 12V Adapter Systems with 2-Output High Performance Synchronous Step-Down Converters
AAT2689	6	24	1.5	5.5	2500; LDO 600	490	600	PMIC Solution for 12V Adapter Systems with 2-Output High Performance Step-Down Converters
AAT2713*	2.7	5.5	0.6	V _{IN}	600/ch	1700	70	Low Noise Dual 600mA with Synchronization
AAT2749*	2.3	5.5	1	1.8	600; LDO 300	1500	100	600mA Preset 1.8V Step-Down and 300mA LDO
AAT2782*	2.7	5.5	0.6	V _{IN}	1200; 600; 400	1300	N/A	Dual Step-Down Converter with Low V _{IN} LDO
AAT2783*	2.7	5.5	0.6	V _{IN}	1000; 400; LDO 400	1300	N/A	Dual Step-Down Converter with Low V _{IN} LDO
AAT2784*	2.7	5.5	0.6	V _{IN}	1500; 300	1800	45-50	3-Channel Step-Down DC/DC Converter
AAT2785*	2.7	5.5	0.6	V _{IN}	1500; 600	1800	45-50	3-Channel Step-Down DC/DC Converter
AAT2786*	2.5	5.5	0.6	V _{IN}	1500; LDO 150	1500	42	1.5A Step-Down Converter and 150mA LDO
AAT2789*	2.7	5.5	0.6	V _{IN}	1700; 800	1400	42	Low Noise, High Frequency Dual Step-Down Converter
AAT3183	2.7	5.5	1.34	1.5	300	2000	35	Step-Down Charge Pump

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DC/DC Converters - PMU

Part#	V _{IN} (min) (V)	V _{IN} (max) (V)	V _{OUT} (min) (V)	V _{OUT} (max) (V)	I _{OUT} (mA)	f _{osc} (kHz)	I _Q (typ) (μA)	Key Features
AAT2500*	2.7	5.5	0.6	V _{IN}	400; LDO 300	1000	25; LDO 70	1MHz 400mA Step-Down Converter with 300mA LDO regulator
AAT2500M	2.7	5.5	0.6	V _{IN}	400; LDO 300	1800	130	400mA Step-Down Converter and 300 mA LDO
AAT2503*	2.7	5.5	0.6	V _{IN}	800; LDO 150	2000	85	Adjustable 3-Channel Regulator
AAT2504*	2.7	5.5	0.6	V _{IN}	800; LDO 300	2000	80	600mA Step-Down Converter + Two LDOs
AAT2505*	2.7	5.5	0.6	V _{IN}	600; LDO 300	1400	27; LDO 70	1.4MHz 600mA Step-Down Converter with 300mA LDO regulator
AAT2506*	2.7	5.5	0.6	V _{IN}	600; LDO 300	1000	25; LDO 70	1MHz 600mA Step-Down Converter with 300mA LDO regulator

Voltage References

Part #	Accuracy	I _{MIN} (μA) (typ)	I _{OUT} (mA) (max)	Temp Drift (ppm/°C)	V _{OUT} (V)	Key Features
AHK432	0.5, 1.0	60	100	60	1.24-20	Adjustable down to 1.24V

Linear Regulators

Part #	Accuracy	Dropout (typ)(mV)	I _{OUT} (mA) (max)	I _Q (typ) (μA)	Power Good	Shutdown	V _{IN} (V)	V _{OUT} (V)	V _{REF} Bypass	Key Features
AAT3200	±2	200	150 (SC59), 250 (SOT89)	20	No	No	V _{OUT} -5.5	Fixed 1.8-3.5	No	General Purpose
AAT3215	±1.5	140	150	95	No	Yes	V _{OUT} -5.5	Fixed 2.5-3.3	Yes	Lowest Noise 150mA- 45μV _{RMS}
AAT3218	±1.5	200	150	70	No	Yes	V _{OUT} -5.5	Fixed 1.2-3.5	Yes	Fast Transient Response
AAT3220	±2	180	150	1.1	No	No	V _{OUT} -5.5	Fixed 1.8-3.5	No	Lowest Ground Current (Nano Power) 4kV ESD
AAT3221	±2	200	150	1.1	No	Yes	V _{OUT} -5.5	Fixed 1.5-3.5	No	Lowest Ground Current (Nano Power) with Enable
AAT3222	±2	200	150	1.1	No	Yes	V _{OUT} -5.5	Fixed 1.5-3.5	No	Lowest Ground Current (Nano Power) with Enable
AAT3223	±2	190	250	1.1	Yes	Yes	V _{OUT} -5.5	Fixed 1.8-3.3	No	Lowest Ground Current with Power Good
AAT3236	±1.5	300	300	100	No	Yes	V _{OUT} -5.5	Fixed 2.5-3.6	Yes	Low Noise 45μV _{RMS}
AAT3237	±1.5	400	300	70	Yes	Yes	V _{OUT} -5.5	Fixed 1.2-3.5	No	Fast Transient Response with Power Good
AAT3238	±1.5	400	300	70	No	Yes	V _{OUT} -5.5	Fixed 1.2-3.5	Yes	Fast Transient Response
AAT3242	±1.5	400, 200	300, 150	70	No	No	1.6-5.5	Fixed 1.5-3.3	No	Dual Channel Fast Transient Response Independent EN and POK
AAT3244	±1.5	200	300,300	85	No	No	1.8-5.5	0.6V to 3.6V	No	Dual Channel 300 mA LDOs with Power-OK
AAT3258	±1.5	400	300	71	μP Reset	Yes	V _{OUT} -5.5	Fixed 1.2-3.5	Yes	Fast Transient Response with Microprocessor Reset

Display and Lighting - Panel Power

Part #	V _{IN} (min)	V _{IN} (max)	Regulated Outputs (#)	V _{POS} (max)	V _{NEG} (max)	V _{REF}	I _{OUT} (max) (mA)	Switching Frequency (max) (kHz)	I _Q (typ) (μA)	Shutdown Current (max) (μA)	Topology	Key Features
AAT1230	2.7	5.5	1	18	N/A	N/A	100	2000	40	1	Inductive	LCD, OLED, CCD
AAT1232	2.7	5.5	1	24	N/A	N/A	100	2000	40	1	Inductive	LCD, OLED, CCD
AAT2822	2.7	5.5	4	30	-30	1.2	20	1300	1100	1	Inductive Charge Pump	LCD
AAT2823	2.7	5.5	4	30	-30	1.2	20	1300	1100	1	Inductive Charge Pump	LCD
AAT3190	2.7	5.5	2	25	-25	1.2	30	1000	400	1	Charge Pump	LCD, OLED, CCD

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Display and Lighting -LED Camera Flash Drivers

Part #	Flash I _{OUT} Total (mA)	Movie Mode I _{OUT} Total (mA)	LED Channels	V _{IN} (min)	V _{IN} (max)	V _{OUT} (max)	Peak Efficiency (%)	Interface	I _Q (typ) (mA)	Shutdown Current (max) (μA)	Key Features
AAT3175	300	N/A	4	2.7	5.5	N/A	95	S ² Cwire™	300	1	High Efficiency Charge Pump for White LED Applications
AAT3112	500	200	2	2.7	5.0	5.0	85	Enable	26.0	1	Independent Flash & Movie Mode Current Setting
AAT3176	500	100	1	2.7	5.5	5.5	93	S ² Cwire™	500	1	Independent Flash & Movie Mode Current Setting
AAT3170	600	200	2	2.7	5.5	4.9	90	AS ² Cwire™	300	1	Tri-Mode Charge Pump, Flash Timer
AAT3172	600	100	2	2.7	5.5	4.9	93	AS ² Cwire™	300	1	Tri-Mode Charge Pump
AAT3171	800	200	1	2.7	5.5	N/A	92	S ² Cwire™	300	1	Tri-Mode Charge Pump, Flash Timer
AAT3174	800	200	1	2.7	5.5	N/A	92	S ² Cwire™	300	1	Tri-Mode Charge Pump
AAT3177	800	200	1	2.7	5.5	N/A	91	S ² Cwire™	300	1	Tri-Mode Charge Pump, Flash Timer
AAT1270	1000	137	2	2.7	5.5	5.5	85	S ² Cwire™	230	1	Uses Tiny 1μH inductor, Programmable Flash Timer
AAT1271	1500	206	2	2.7	5.5	5.5	85	AS ² Cwire™	230	1	Uses Tiny 1μH inductor, Programmable Flash Timer
AAT1272	1500	206	2	2.7	5.5	5.5	85	I ² C	230	1	Uses Tiny 1μH inductor, Programmable Flash Timer
AAT1274	1500	206	1	2.7	5.5	5.5	85	I ² C	230	1	1.5A Single Flash LED Driver IC
AAT1278	1500	206	1	2.7	5.5	5.5	88	AS ² Cwire™	230	1	1.5A Single Flash LED Driver
AAT1282*	2000	274	2	2.7	5.5	N/A	80	I ² C	570	1	Uses Tiny 1μH inductor, Programmable Flash Timer
AAT1290	1500	206	1	2.7	5.5	5.5	85	AS ² Cwire™	230	1	1.5A Step-Up Current Regulator for Flash LEDs

Display and Lighting - Lighting Management Units

Part#	Backlight LEDs	Back-light I _{OUT} (max) per Channel (mA)	Flash LED Channel(s)	Flash I _{OUT} (max) per/ Ch (mA)	Movie Mode I _{OUT} (max) per Channel (mA)	LDO Output(s)	LDO V _{OUT} (min-max)	LDO Accuracy (%)	LDO Load Current (mA)	V _{IN} (min-max)	Interface	Key Features
AAT2803	6	30	1	300	120	NA	NA	NA	NA	2.7-5.5	AS ² Cwire™	Individual LDO Enables
AAT2842	4	30	4	150	48	2	1.2-V _{IN} (max)	±2.5	200	2.7-5.5	S ² Cwire™	High-Current Charge Pump
AAT2845	4	20	0	NA	NA	2	1.2-2.8	±2.5	200	2.7-5.5	S ² Cwire™	Flash Timer
AAT2845A	4	20	0	NA	NA	2	1.17-1.23	±2.5	200	2.7-5.5	S ² Cwire™	Flash Timer
AAT2846	6	20	2	300	100	2	1.2-V _{IN} (max)	±2.5	200	2.7-5.5	AS ² Cwire™	Backlight Fading, Flash Timer
AAT2847	4	20	0	NA	NA	2	1.2-2.8	±2.5	200	2.7-5.5	AS ² Cwire™	Four-Channel Backlight Driver with Dual LDOs
AAT2848	4	30	2	300	100	NA	NA	NA	NA	2.7-5.5	S ² Cwire™	Flash Timer, Individual LDO Enables
AAT2861	6	31	2	300	120	3	1.2-3.3	±1.5	300	2.7-5.5	AS ² Cwire™	Main/Sub Group Options, Flash Timer
AAT2862	8	30	0	NA	NA	4	1.2-3.3	±1.5	200	2.7-5.5	I ² C	2 Optional AUX outputs at 60mA
AAT2863	6	60	N/A	N/A	N/A	4	1.2-3.3	±1.5	300	2.7-5.5	I ² C PWM	Backlight LED Driver and Multiple LDO LMU
AAT2866	7	31	2	300	120	3	1.2-3.3	N/A	300	2.7-5.5	I ² C	Backlight/Flash LED Driver and Triple LDO LMU
AAT2868	4	31	N/A	N/A	N/A	2	1.2-3.0	±3.0	150	2.7-5.5	AS ² Cwire™ PWM	CABC Compatible 4Ch Backlight Driver w/ Dual LDO Regulators
AAT2869	4	31	N/A	N/A	N/A	2	1.2-3.0	±3.0	150	2.7-5.5	AS ² Cwire™	Fade-In/Fade-Out 4 Channel Backlight Driver with Dual LDOs
AAT2870	8	27.9	0	N/A	N/A	4	1.2-3.3	±2.0	300	2.7-5.5	I ² C	LED Backlight Driver and Multiple LDO LMU
AAT2893	10	28.6				4	1.2-3.3		150	3.0-5.5	I ² C PWM	CABC Compatible, Ambient Light Control Boost LED Backlight Driver & 4 LDOs

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Display and Lighting - RGB LED Driver

Part #	V _{IN} (min)	V _{IN} (max)	Number of RGB LED(s)	Number of Built-in Patterns	Color Space	Switching Frequency (max) (kHz)	Interface	Peak Efficiency (%)	Current Accuracy (%)	I _{OUT} (max) per channel (mA)	I _Q (typ) (μA)	Key Features
AAT3128	2.7	5.5	2	16	64	1000	S ² Cwire™	93	±5	60	3	Compatible with Common Anode RGB LEDs
AAT3129	2.7	5.5	1	0	4096	1000	AS ² Cwire™	93	±5	180	1	Compatible with Common Anode RGB LEDs

Display and Lighting - Large Screen LCD/ High Resolution Direct LED Backlight

Part #	# of LEDs	LED Channels	LED(s) per/Ch	Current Accuracy (%)	Current Matching (%)	I _{OUT} (max) per/Ch (mA)	Interface	DOT Correction (bits)	Grey Scale (bits)	Channel Phase Delay (bits)	V _{IN} (min) (V)	V _{IN} (max) (V)	Key Features
AAT2400	80	8	8	±2.5	±2.0	100	SPI	8	12	12	10.8	28	MicroPower
AAT2401	80	8	8	±2.5	±2.0	100	SPI	8	12	12	10.8	28	MicroPower
AAT2402M	160	16	10	±2.5	±2.0	100	SPI	8	12	12	10.8	28	High Efficiency 2X Charge Pump
AAT2402S	160	16	10	±2.5	±2.0	100	SPI	8	12	12	10.8	28	High Efficiency 2X Charge Pump
AAT2403	160	16	10	±1.5	±2.0	100	SPI	8	12	12	10.8	28	2 Channel LED Driver

Display and Lighting - Large Screen LCD/ Edge LED Backlight

Part #	# of LEDs	LED Channels	LED(s) per/Ch	Current Accuracy (%)	Current Matching (%)	I _{OUT} (max) per/Ch (mA)	Interface	Peak Efficiency (%)	V _{IN} (min) (V)	V _{IN} (max) (V)
AAT2405	150	6	25	±1.5	±1.5	100	PWM	N/A	4.5	28
AAT1405	44	4	10	±2	±2	30	PWM	85	4.5	26
AAT1407	66	6	10	±2	±2	30	PWM	85	4.5	26
AAT1409	88	8	10	±2	±2	30	PWM	85	4.5	26
AAT1451	48	4	12	±2	±2	30	PWM	92	5	26

Display and Lighting - Serial Boost White LED Backlight Drivers

Part #	# of LEDs	LED Channels	LED(s) per/Ch	V _{IN} (min)	V _{IN} (max)	Interface	Peak Eff. (%)	Current Accuracy (%)	Current Matching (%)	I _{OUT} (max) per/ch (mA)	I _Q (typ) (μA)	Key Features
AAT1239-1	10	1	10	2.7	5.5	S ² Cwire™	85	±3.5	N/A	30	70	Uses Tiny Chip Inductors
AAT1231	12	1	6	2.7	5.5	S ² Cwire™	82	±6	N/A	50	40	Uses Tiny Chip Inductors and Capacitors
AAT1235	30	5	6	2.7	5.5	AS ² Cwire™	85	±10	±2	30	300	Independently Control Two Group of LED Currents
AAT1236	30	5	6	2.7	5.5	I ² C	85	±10	±2	30	300	Independently Control Two Group of LED Currents
AAT1401	6	1	6	2.7	5.5	S ² Cwire™, Filtered PWM	85	±10	N/A	31	0.43	Filtered PWM and 32 Step S ² C Dimming Control
AAT1402	8	1	8	2.7	5.5	S ² Cwire™, Filtered PWM	83	±10	N/A	31	0.43	Direct PWM and 32 Step S ² C Dimming Control
AAT1403	10	1	10	2.7	5.5	S ² Cwire™, Filtered PWM	81	±10	N/A	31	0.43	Filtered PWM and 32 Step S ² C Dimming Control
AAT1410	4	1	4	2.7	5.5	S ² Cwire™, Direct PWM,	86	±10	N/A	31	0.43	Direct PWM and 32 Step S ² C Dimming Control
AHK1421	6	1	6	2.7	5.5	S ² Cwire™	86			31		S ² C Controlled, Serial LED Boost Driver

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Display and Lighting - Charge Pump Based White LED Backlight Drivers

Part #	# of LEDs	LED Channels	LED(s) per/Ch	V _{IN} (min)	V _{IN} (max)	Interface	Peak Eff. (%)	Current Accuracy (%)	Current Matching (%)	I _{OUT} (max) per/ch (mA)	I _Q (typ) (µA)	Key Features
AAT3110	1	1	1	2.7	5	Enable	92	N/A	N/A	100	13	MicroPower
AAT3111	1	1	1	1.8	3.6	Enable	90	N/A	N/A	100	20	MicroPower
AAT3119	1	1	1	2.7	5.5	Enable	91	N/A	N/A	250	1200	High Efficiency 2X Charge Pump
AAT3192-1	2	2	1	2.7	5.5	S ² Cwire™	91	±10	±3	30	2500	2-Channel Charge-Pump LED Drivers
AHK3292	2	2	1	2.7	5.5	S ² Cwire™	98	±10	±3	30.2	1800	2 Channel LED Driver
AAT3103-4	3	3	1	2.7	5.5	PWM	90	±10	±3	30	1900	2-Channel Charge-Pump LED Driver
AAT3120	3	3	1	2.7	5.5	S ² Cwire™	86	±10	±0.5	20	1000	3-Channel Charge Pump
AAT3142	3	3	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	30	550	High Efficiency 1X/1.5X/2X Charge Pump
AAT3157	3	3	1	2.7	5.5	S ² Cwire™	97	±10	±0.5	20	50	High Efficiency Charge Pump
AAT3193-1	3	3	1	2.7	5.5	S ² Cwire™	91	±10	±3	30	600	3-Channel Charge-Pump LED Driver
AAT3193-4	3	3	1	2.7	5.5	PWM	91	±10	±3	30	600	High Efficiency 1X/1.5X/2X Charge Pump with PWM Control
AAT3104-1	4	4	1	2.7	5.5	S ² Cwire™	83	±10	±3	31	6000	Low Cost 1x/2x 4 Channel Charge Pump WLED Driver
AAT3104-2	4	4	1	2.7	5.5	S ² Cwire™	83	±10	±3	31	6000	Low Cost 1x/2x 4 Channel Charge Pump WLED Driver
AAT3105	4	4	1	2.7	5.5	PWM	87	±10	±3	30	3000	1x/2x 4 Channel Charge Pump WLED Driver
AAT3113	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.3	20	1000	High Efficiency 1.5X Fractional Charge Pump
AAT3123	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	20	1800	High Efficiency 1.5X Fractional Charge Pumps
AAT3131	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	30	1800	High Efficiency 1.5X Fractional Charge Pumps
AAT3132	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	30	1800	LED Brightness Control of Main and Sub group
AAT3140	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	30	550	AutoBias™
AAT3141	4	4	1	2.7	5.5	AS ² Cwire™	93	±10	±0.5	30	550	AutoBias™, LED Brightness Control of Main and Sub group
AAT3143	4	4	1	2.7	5.5	PWM	93	±10	±0.5	20	550	AutoBias™
AAT3151B	4	4	1	2.7	5.5	AS ² Cwire™	97	±10	±0.5	30	50	High Efficiency 1.5X Fractional Charge Pump
AAT3152	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	20	50	LED Brightness Control of Main and Sub group
AAT3155	4	4	1	2.7	5.5	S ² Cwire™	97	±10	±0.5	20	50	High Efficiency 1X/1.5X/2X Charge Pump
AAT3158	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	20	50	High Efficiency 1X/1.5X/2X Charge Pump
AAT3159	4	4	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	40	50	High Efficiency 1X/1.5X/2X Charge Pump
AAT3166	4	4	1	2.7	5.5	S ² Cwire™	94	±10	±0.5	27	50	High Efficiency 1X/1.5X/2X Charge Pump
AAT3194	4	4	1	2.7	5.5	S ² Cwire™	93	±20	±0.3	20	3000	High Efficiency 1X/1.5X/2X Charge Pump
AAT3195	4	4	1	2.7	5.5	S ² Cwire™	91	±10	±3	30	600	4-Channel Charge-Pump LED Driver
AAT3340	4	4	1	2.7	5.5	S ² Cwire™	86	±10	±3	20	1800	High Efficiency 1x/1.5x Charge Pump
AAT3167	5	5	1	2.7	5.5	S ² Cwire™	94	±10	±0.5	27	50	High Efficiency 1X/1.5X/2X Charge Pump
AAT3114	6	6	1	2.7	5.5	S ² Cwire™	93	±10	±0.3	20	1000	High Efficiency 1.5X Fractional Charge Pump
AAT3121	6	1	6	2.7	5.5	S ² Cwire™	93	±10	N/A	132	1800	High Efficiency 1X/1.5X/2X Charge Pump
AAT3122	6	1	6	2.7	5.5	S ² Cwire™	93	±10	N/A	132	1800	High Efficiency 1X/1.5X/2X Charge Pump
AAT3124	6	6	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	20	1800	High Efficiency 1x/1.5x Fractional Charge Pump
AAT3134	6	6	1	2.7	5.5	S ² Cwire™	93	±10	±0.5	20	1800	LED Brightness Control of Main and Sub group
AAT3156	6	6	1	2.7	5.5	AS ² Cwire™	93	±10	±0.5	30	50	High Efficiency 1X/1.5X/2X Charge Pump
AAT3164	6	6	1	2.7	5.5	S ² Cwire™	94	±7	±0.5	30	70	High Efficiency 1X/1.5X/2X Charge Pump for Six-Channel
AAT3169	6	6	1	2.7	5.5	AS ² Cwire™	94	±10	±0.5	30	65	High Efficiency 1X/1.5X/2X Charge Pump
AAT1409	88	8	10	4.5	26	PWM	85	±2	±2	30	3000	8 Channel LED Backlight Driver with Integrated Boost and High Frequency Direct PWM Dimming
AAT3369-1	6	6	1	2.7	5.5	S ² Cwire™	91	±10	±3	21	500	High Efficiency, 6 Channel, 1X/1.5X Charge Pump for CABG White LED Applications
AHK3294	4	4	1	2.7	5.5	S ² Cwire™	98	±10	±3	30.2	2500	4 Channel 1X LED Driver
AHK3296	6	6	1	2.7	5.5	S ² Cwire™	98	±10	±3	20.6	2500	6 Channel 1x Low Dropout LED Driver

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Multi-Function Power Management Integrated Circuit

Part #	Battery Charger Type	# of Step-Down Switching Regulators	# of LDO Reg	Min V_{IN} (V)	Max Reg V_{IN} (V)	Max Charger V_{IN} (V)	Max Charge Current (mA)	Single/Ch Max Output Current (mA)	Single/Ch Min Output Voltage (V)	Max Step-Up Output Voltage (V)	Output Voltages Control	Operating Frequency (kHz)
AAT2550*	Linear	2	0	2.7	5.5	5.5	1000	600	0.6	V_{IN}	External Resistors	1400
AAT2552*	Linear	1	1	2.7	5.5	7.5	500	300	0.6	V_{IN}	External Resistors	1500
AAT2554*	Linear	1	1	2.7	5.5	6.5	500	300	0.6	V_{IN}	External Resistors / Fixed	1500
AAT2556*	Linear	1	0	2.7	5.5	6.5	500	250	0.6	V_{IN}	External Resistors	1500
AAT2557	Linear	0	1	2.7	5.5	6.5	500	300	N/A	V_{IN}	Fixed	N/A
AAT2601*	Linear	1	5	4.5	6	6	1440	300	1.8	N/A	Fixed	1500
AAT2601A*	Linear	1	5	4.5	6	6	1440	300	1.8	N/A	Fixed	1500
AAT2601B*	Linear	1	5	4.5	6	6	1440	300	1.8	N/A	Fixed	1500
AAT2603	N/A	2	4	2.7	5.5	6	N/A	1200	0.6	V_{IN}	External Resistors	1500
AAT2605	N/A	0	5	2.7	5.5	N/A	N/A	300	0.6	N/A	Enables	N/A
AAT2606	N/A	0	6	2.7	5.5	N/A	N/A	300	0.6	N/A	Enables	N/A
AAT2608A	N/A	1	8	2.7	5.5	N/A	N/A	800/300	0.6	N/A	Enables	1500
AAT2610*	N/A	4	0	1.6	5.5	N/A	N/A	1500	0.6	30	External Resistors	1500
AAT2612*	N/A	1	3	2.07	5.5	N/A	N/A	600/300	1.0/1.8	N/A	Enables	1500
AAT2614*	N/A	N/A	1	2.5	5.5	N/A	N/A	600/300	1.0/1.8	N/A	Enables	2000
AAT3601*	Linear	1	5	4.5	6	6	1440	300	1.24	N/A	Fixed	1500
AAT3603*	Linear	1	5	4.5	6	6	1440	300	1.8	N/A	I ² C/Fixed	1500
AAT3603A*	Linear	1	5	4.5	6	6	1440	300	1.8	N/A	I ² C/Fixed	1500
AAT3604A*	Linear	1	1	2.7	4.5	6.5	100	25	0.6	27	Enables	1600
AAT3608	Linear	2	5	2.7	5.5	5.5	1200	800	0.5	N/A	External Resistors / I ² C	1500

Supervisors/Monitors, Voltage Detectors - Microprocessors

Part #	Accuracy	Manual Reset	Output: Active Low, Open Drain	Output: Bi-Directional	Output: Push-Pull Active High	Output: Push-Pull Active Low	I_Q (typ) (μ A)	Threshold(V)	V_{IN} (V)	Watchdog Timer
AAT3510	± 1.5	Yes	No	No	No	Yes	5	2.6 - 5.0	1.0 - 5.5	Yes
AAT3515	± 1.5	Yes	No	No	Yes	Yes	5	2.6 - 5.0	1.0 - 5.5	No
AAT3517	± 1.5	Yes	Yes	No	No	Yes	5	2.6 - 5.0	1.0 - 5.5	Yes
AAT3532	± 2.6	Yes	Yes	No	Yes	No	23	4.5, 4.75	4.5 - 5.5	Yes

Integrated Load Switches - I/O Expander Serial Controlled Load Switches

Part #	# of Channels	Enable	Turn On Rise Time (T_R)	$R_{DS(ON)}$ (m Ω) (Typ)	I_Q (typ) (μ A)	V_{IN} (V)	Key Features
AAT4290	5	S ² Cwire™	0.27 μ s	1100	4.5	1.8-5.5	5 Highside Switches, Single Wire Control
AAT4290A	5	S ² Cwire™	0.27 μ s	1100	4.5	1.8-5.5	I/O Expander Load Switches with Serial Control
AAT4291	3	S ² Cwire™	0.27 μ s	1100	4.5	1.8-5.5	3 Highside Switches, Single Wire Control
AAT4292	7	AS ² Cwire™	0.27 μ s	1100	6.3	1.8-5.5	Seven Channel High-Side I/O Expander
AAT4296	5	S ² Cwire™	1.6 μ s	Pch 2.5, Nch 1.9	3	1.8-5.5	Five-channel I/O expander, Single Wire Control
AAT4298	6	S ² Cwire™	1.6 μ s	Pch 2.5, Nch 1.9	3	1.8-5.5	Six-channel I/O Expander, Single Wire Control

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Integrated Load Switches - Slew Rate Controlled

Part #	Description	# of Channels	Enable	Turn On Rise Time (T _R)	R _{DS(ON)} (mΩ)(Typ)	I _Q (typ) (μA)	V _{IN} (V)	Key Features
AAT4250	Slew Rate Controlled Load Switch	1	Yes	1.5ms	120	2	1.8-5.5	Slow Rise Time
AAT4252A	Dual Slew Rate Controlled Load Switch	2	Yes	1.0ms, 0.5μs, 100μs	87@5V, 196@1.5V	0.5	1.5-6.5	Dual Slew Rate Controlled Load Switch
AAT4280	Slew Rate Controlled Load Switch	1	Yes	0.5μs,0.1ms, 1.0ms	80	2.5	1.8-5.5	Low R _{DS(ON)}
AAT4280A	Slew Rate Controlled Load Switch	1	Yes	0.5μs,0.1ms, 1.0ms	80	0.025	1.5-5.5	Low input voltage
AAT4282A	Dual Slew Rate Controlled Load Switch	2	Yes	0.5μs,0.1ms, 1.0ms	60 @ 5V	1	1.5 - 6.5	Dual Slew Rate controlled Load Switch, Low RDS
AAT4285	12V Slew Rate Controlled Load Switch	1	Yes	0.1 ms	240	25	3.0 - 13.2	Slew Rate Controlled Load Switch

Integrated Load Switches - RGB Controllers

Part #	Description	# of Channels	Enable	RGB Control	Low Side Switches	I _Q (typ) (μA)	V _{IN} (V)	Key Features
AAT4295	Three-Channel Single RGB Controller	3	S ² Cwire™	Single	3	3	1.8-5.5	Three Low Side Switches, Single Wire Control
AAT4297*	Six-Channel Dual RGB Controller	6	S ² Cwire™	Dual	6	3	1.8-5.5	Six low Side Switches, Single Wire Control

Battery Chargers - Linear

Part #	# of Cells	Max Protected V _{IN} (V)	Max Charging V _{IN} (V)	Max Charge Current (mA)	# of Input Channels	Dynamic Power Mgmt	Automatic Charge Reduction	Active Digital Thermal Loop Control	Charge Rate Control	Key Features
AAT3663	1/2	N/A	13.2	1000	USB or AC Adaptor	No	No	Yes	External Resistor	Single/Dual Cell Charger
AAT3670	1	N/A	5.5	1600	USB and AC Adaptor	Yes	Yes	Yes	External Resistors	Dual Input Charger with Dynamic Power Path
AAT3672	1	N/A	6.5	1600	USB or AC Adaptor	Yes	Yes	Yes	External Resistor	Single Input Charger with Dynamic Power Path
AAT3673	1	N/A	6.5	1600	USB or AC Adaptor	Yes	Yes	Yes	External Resistor	1.6A Dynamic Battery Charger and Power Management IC
AAT3681	1	N/A	7.5	300	USB or AC Adaptor	No	No	No	External Resistor	Simple Charger in Tiny Package
AAT3681A	1	N/A	7.5	500	USB or AC Adaptor	No	No	No	External Resistor	USB or AC Charger; Up to 6.5V V _{IN}
AAT3682	1	N/A	6	1000	AC Adaptor	No	No	No	External Resistor	Simple Charger in Tiny Package
AAT3683	1	N/A	7.5	1000	USB or AC Adaptor	No	No	Yes	External Resistor	Charger with Battery Temperature Sensing and Status Outputs
AAT3685	1	N/A	5.5	1000	USB or AC Adaptor	No	Yes	No	External Resistors	USB Charger with Battery Temperature Monitoring and Status Outputs
AAT3686	1	N/A	5.5	1500	USB and AC Adaptor	No	Yes	Yes	External Resistors	Smart, Dual Input Charger with Battery Temperature Monitoring and Status Outputs
AAT3687	1	N/A	5.5	1500	USB or AC Adaptor	No	Yes	No	External Resistor	Charger Battery Temperature Monitoring and Status Outputs
AAT3688	1	N/A	5.5	500	USB or AC Adaptor	No	Yes	No	External Resistor	USB Charger with Battery Temperature Monitoring and Status Outputs
AAT3689	1	N/A	5.5	1000	USB and AC Adaptor	No	No	No	External Resistor	Dual Input Charger with Battery Temperature Monitoring and Status Outputs
AAT3690	1	N/A	5.5	1000	USB and AC Adaptor	No	Yes	Yes	External Resistor	Dual Input Charger with Battery Temperature Monitoring and Status Outputs
AAT3691	1	28	6.75	1600	USB or AC Adaptor	No	Yes	Yes	External Resistors	Dual Input Charger with 28V Over-Voltage Protection
AAT3692	1	28	7.2	1600	USB or AC Adaptor	No	Yes	Yes	External Resistors	Dual Input Charger with 28V Over-Voltage Protection
AAT3693	1	N/A	7.5	1600	USB or AC Adaptor	No	No	Yes	External Resistors	Feature Rich Charger in Tiny 2x2TDFN Package

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Battery Chargers - Linear

Part #	# of Cells	Max Protected V_{IN} (V)	Max Charging V_{IN} (V)	Max Charge Current (mA)	# of Input Channels	Dynamic Power Mgmt	Automatic Charge Reduction	Active Digital Thermal Loop Control	Charge Rate Control	Key Features
AAT3696	1	28	6.8	1600	USB or AC Adaptor	No	No	No	External Resistors	Charger with 28V Over-Voltage Protection
AAT3697	1	N/A	5.5	2000	USB or AC Adaptor	No	Yes	Yes	External Resistor	Smart Charger with Battery Temperature Monitoring and Status Outputs
AAT3698	1	28	7.0	1600	1	No	No	Yes	External Resistor	1.6A Linear Li-Ion Battery Charger
AAT3783	1	28	7.5	1000	USB or AC Adaptor	No	No	Yes	External Resistor	Charger with 28V Over-Voltage Protection, Temperature Monitoring and Status Outputs

Battery Chargers - Switching

Part #	# of cells	Max Protected V_{IN} (V)	Max Charging V_{IN} (V)	Max Charge Current (mA)	# of Input Channels	Dynamic Power Mgmt	Automatic Charge Reduction	Active Digital Thermal Loop Control	Charge Rate Control	Switching Frequency (kHz)	Key Features
AAT3620	1	N/A	6	2000	USB or AC Adaptor	No	No	No	External Resistor	1500	1-Cell Li+ Switch Mode Battery Charger

Current Limited Load Switches - Multiple

Part #	# of Channels	Enable	Fault Flag	I_{LIM}	I_Q (typ) (μ A)	$R_{DS(ON)}$ (m Ω) (Typ)	Shutdown	V_{IN} (V)	Key Features
AAT4650	2	No	Yes	Fixed 1A	15	80	Yes	2.7-5.5	Power Multiplexer
AAT4670	2	No	Yes	Fixed 1A	18	95	Yes	2.2-5.5	Fully Independent Dual Switches
AAT4672	2	Yes	Yes	2A	10	120	No	2.5-6.0	Power Supply Selector Switch
AAT4674	2	Yes	No	2A	10	120	No	2.5-6.0	Power Supply Selector Switch
AAT4712	1	Yes	Yes	2.4	70	50	No	2.5-5.5	Dynamic Power Path

Current Limited Load Switches - Single

Part #	# of Channels	Enable	Fault Flag	I_{LIM}	I_Q (typ) (μ A)	$R_{DS(ON)}$ (m Ω) (Typ)	V_{IN} (V)	Key Features
AAT4601	1	Yes	Yes	Adj 1.8A	12	70	2.7-5.5	USB Compatible, Adjustable Current Limit
AAT4601A	1	Yes	Yes	Adj 1.8A	12	70	2.7-5.5	Low Input Voltage
AAT4608	1	No	No	Adj 1A	15	160	2.7-5.5	Current Limited Load Switch
AAT4610	1	Yes	No	Adj 1A	15	160	2.7-5.5	Small Size, Adjustable Current Limit
AAT4610A	1	Yes	No	Adj 1A	9	145	2.4-5.5	Current Limited Load Switch
AAT4610B	1	Yes	No	Adj 1A	9	145	2.4-5.5	Current Limited Load Switch
AAT4611	1	Yes	No	Adj 1A	15	160	2.7-5.5	Current Limited Load Switch
AAT4614	1	Yes	Yes	1.6A Adj	10	130	2.4-5.5	Adjustable Current Limited Load Switch with Fault Flag
AAT4616	1	Yes	Yes	300mA to 1.6A	10	130	2.4-5.5	Ultra High Precision Adjustable Current Limited Load Switch
AAT4616A	1	Yes	Yes	300mA to 1.6A	10	130	2.4-5.5	High Precision Adjustable Current Limited Load Switch
AAT4618	1	Yes	Yes	Fixed 400mA, 500mA, 1A	10	125	2.4-5.5	Small Size, Fixed Current Limit, Fault Flag, Ideal for USB Port Protection
AAT4620	1	Yes	Yes	Adj to 1.2A	40	65	3.0-5.5	Dual Current limit, Thermal Loop, Super Capacitor Charger
AAT4621	1	Yes	Yes	75mA - 1.2A	40	65	3.0-5.5	Dual Current Limit, Thermal Loop, Fast Transient Response, Super Capacitor Charger
AAT4625	1	Yes	Yes	Fixed 1A, 1.5A, 2A	16	60	2.7-5.5	USB Compatible, Fixed Current Limit
AAT4626	2	Yes	Yes	Fixed 750mA, 1A, 1.5A	20	90	2.7-5.5	Dual USB Compatible, Fixed Current Limit
AAT4644	4	No	No	Fixed 600mA, 1A, 1.5A	20	100	2.7-5.5	4-channel Independent Current Limit
AAT4684	1	Yes	Yes	1.8A	30	100	3.0-14	Low Resistance, Fast Turn-Off
AAT4685	1	Yes	Yes	1.9A	600	120	3.0-28	Over-Voltage Protection Switch with OCP and BOVP
AAT4686	1	Yes	Yes	N/A	30	N/A	3.0-14	Drives External P-Channel MOSFET Fast Turn-Off
AAT4687	1	Yes	Yes	N/A	30	130	3.0-14	Over-Voltage Protection Switch
AAT4702	1	Yes	Yes	150mA, 1A	15	220	2.4-5.5	Auto-Restarting Current Limiting Load Switch with LDO Regulator
AAT4712	1	Yes	PIK;RDY	2.4	70	50	2.5-5.5	Power Path with Input Current Limit and Capacitor Charger

Power Half Bridges

Part #	Break Before Make Time (ns)	I _{OUT} (mA) (max)	Logic Input	R _{DS(ON)} (typ) (mΩ) High Side Switch	R _{DS(ON)} (typ) (mΩ) Low Side Switch	V _{IN} (V)	Key Features
AAT4900	5	1000	Yes	130	105	2.7 - 5.5	High-speed PMOS and NMOS with Control Logic
AAT4901	5	700	Yes	220	160	2.0 - 5.5	High-speed Full-Bridge with Control Logic
AAT4902	100	400	Yes	350	350	2.5 - 5.5	One-Channel Full-Bridge Motor Driver
AAT4910	50	N/A	Yes	3000	1700	4.5 - 28	28V Half-Bridge Dual N-Channel MOSFET Driver

Power MOSFETS - Power Saving Load Switches

Part #	BV _{DSS} (V)	Configuration	I _{D(max)} (A)	P _D (W)	R _{DS(ON)} @ V _{GS} = -2.5V (mΩ)	R _{DS(ON)} @ V _{GS} = -4.5V (mΩ)	Typical Gate Charge Q _G (nC)
AAT4681	-20	Single P	±7.0	2	N/A	18	-13.6

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