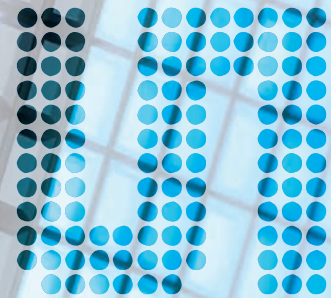


# Smart Power

[www.ams.com/PMU](http://www.ams.com/PMU)



## Smart Power Management

- Low Noise LDOs
- Step Down & Step Up DC-DC converters
- Programmable start up sequencing
- Strong 1.5 Amp Chargers
- Power Path Management

We provide innovative analog solutions to the most challenging applications in sensor and sensor interfaces, power management, and wireless.

## General Description

ams' line of power management units covers highly integrated, extremely flexible power management units for a portable, battery powered devices. All products come either in BGA, CSP or in thermally enhanced QFN packages.

Applications	Benefits
<ul style="list-style-type: none"> <li>- Wearables</li> <li>- Action Cameras</li> <li>- Portable navigation devices</li> <li>- e-book readers</li> <li>- Portable media players</li> <li>- Tablets</li> <li>- Netbooks</li> <li>- SSD drives</li> <li>- Mobile phones</li> </ul>	<ul style="list-style-type: none"> <li>- DC-DC up to 32A current with Dynamic Voltage Management</li> <li>- Smallest Inductors (0.47μH) by 4MHz DC-DCs</li> <li>- Strong 1.5A Charger, 2.6A power path management</li> <li>- Digital LDOs (0.9-3.3V out, 1.8-5.5V in)</li> <li>- 30V OVP</li> <li>- Ultra low power RTC (&lt;700nA)</li> <li>- Flexible OTP for start-up sequencing</li> <li>- Configurable stand-by mode</li> <li>- Space Saving QFN and CSP Packages</li> </ul>

	AS3607 (AS3608)	AS3709	AS3710 (AS3712)	AS3711 (AS3713)	AS3715	AS3722	AS3701
<b>Power Management</b>							
Universal LDO	-	2 x 300mA	6 x 300mA	6 x 300mA	6 x 300mA	9 x 300mA	2 x 200mA
Analog LDO	1 x 100mA 4 x 250mA	-	2 x 250mA	2 x 250mA	2 x 250mA	-	-
Low Output Range LDO	-	-	-	-	-	1 x 300mA	-
Extended Input Range LDO	-	-	-	-	-	1 x 300mA	-
DCDC Step Down Converter	3 x 700mA (3 x 1A)	5 x 1A 2A configurable 3A configurable	1 x 1.5A 2 x 1A 2A configurable	1 x 1.5A 2 x 1A 2A configurable	2 x 1A 1 x 2A 4A configurable	1 x 4A 1 x 2A 2 x 1.5A 3A configurable 5.5A configurable 6A configurable	1 x 500mA
DCDC Step Down Controller	-	-	-	1 x 3A	1 x 8A*	1 x 8A* 1 x 16A* 1 x 32A*	-
DCDC Step Up Converter	1 x 30V	-	3 x 50V	2 x 50V	1 x 50V	-	-
Load Switch	-	-	-	-	-	1 x 350mΩ	-
Current Sink	2 x 40mA	-	3 x 40mA	3 x 40mA	3 x 40mA	-	2 x 40mA
Charge Pump	-	-	-	-	5V / 60mA	-	-
Charger	Linear 1A	-	DCDC / Linear 1.5A (-)	DCDC / Linear 1.5A (-)	DCDC / Linear 1.5A	-	Linear 500mA
USB Limit / Power Path	Yes / Yes	-	Yes / Yes (-)	Yes / Yes (-)	Yes / Yes	-	Yes / Yes
<b>Features</b>							
GPIO	4	2	4	4	8	8	5
RTC	-	-	Yes	Yes	-	Yes	-
General Purpose ADC	10bit	-	10bit	10bit	10bit	10bit	-
Startup Sequence	Programmable	Programmable	Programmable	Programmable	Programmable	Programmable	Programmable
Package	QFN-36 6x6mm	QFN-32 4x4mm CSP-36 0.4pitch	QFN-56 7x7mm CSP-64 0.4pitch	QFN-56 7x7mm CSP-64 0.4pitch	CSP-81 0.4pitch	BGA-124 8x8mm	CSP-20 0.4pitch

\*using AS3728 or AS3729B

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