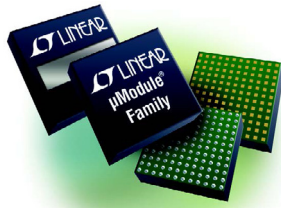


# µModule Regulators for Analog Devices' Processors and DSPs

## TigerSHARC®, SHARC®, Blackfin® and DSP Families



Complete Power System-in-a-Package

### µModule® Regulator for Core Power

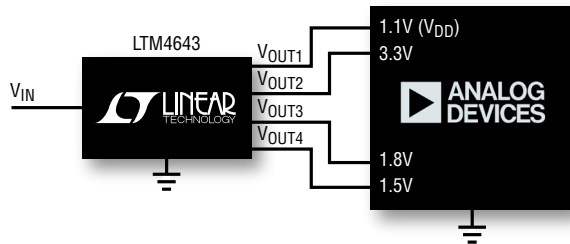
Processor Product Family		SHARC, TigerSHARC					
Processor Product Family		Blackfin, SigmaDSP, ADSP-21xx Processor, CM4xx Processor					
V <sub>IN</sub>	I <sub>OUT</sub>	200mA	500mA	600mA	1A	2A	3A
3.3V		Recommend Linear Technology's Linear Regulator or Monolithic Switching Regulator			LTM4622*	LTM4622*	LTM4622**
					LTM4623***	LTM4623***	LTM4623***
5V		LTM8020	LTM8021	LTM4623	LTM4623	LTM4623	LTM4623
12V		LTM8020	LTM8021	LTM4623	LTM4623	LTM4623	LTM4623
24V		LTM8020	LTM8021	LTM8029	LTM8022	LTM8023	LTM8053

### Multi-Output µModule Regulators for Low Power Core, IO and System

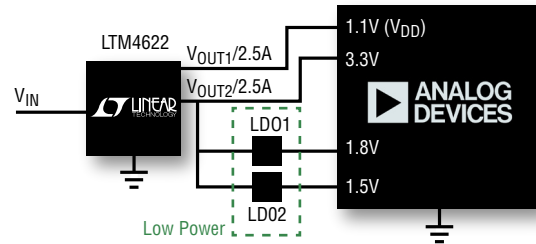
V <sub>IN</sub>	Dual Output	Quad Output	
	Up to 2.5A / Output	Up to 3A/Output	Up to 4A/Output
3.3V	LTM4622	LTM4643*	LTM4644*
5V	LTM4622	LTM4643	LTM4644
12V	LTM4622	LTM4643	LTM4644

\*Dual output, up to 2.5A/output  
 \*\*Dual phase, single output operation  
 \*\*\*Requires external bias

\*Requires external bias

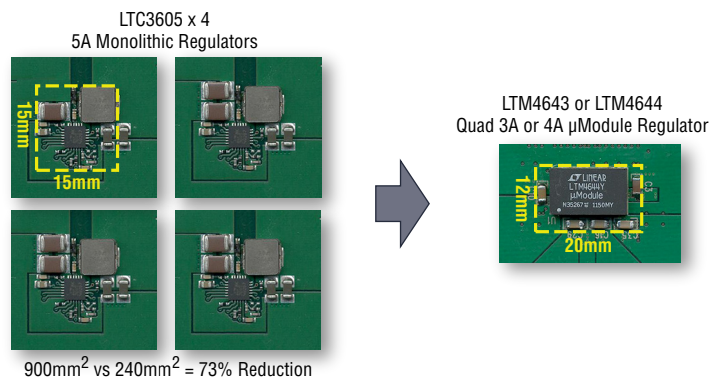


LTM4643: Ultrathin 3A, Quad Output µModule Regulator



LTM4622: Ultrathin 2.5A Dual Output µModule Regulator

### Simpler Power Management Solutions: Solution Size Comparison with Discrete Circuits



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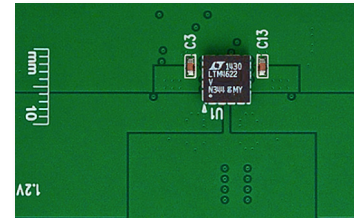
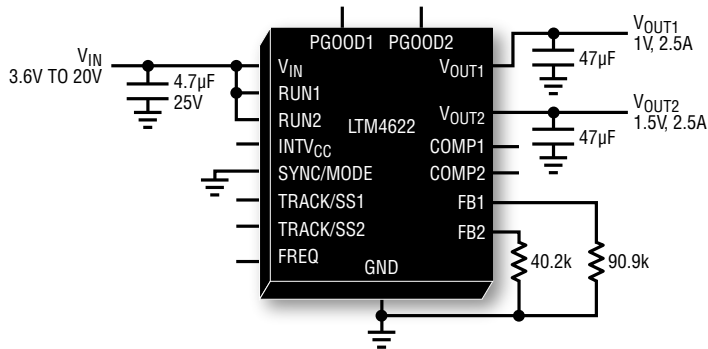
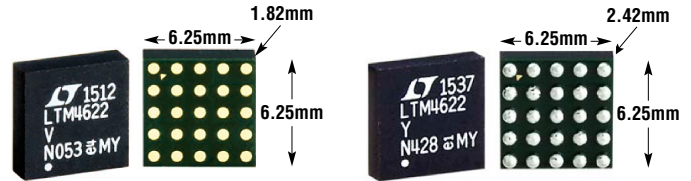
# µModule Regulators for Analog Devices' Processors and DSPs

## TigerSHARC, SHARC, Blackfin and DSP Families



### LTM4622: Ultrathin Dual 2.5A Output Step-Down µModule Regulator

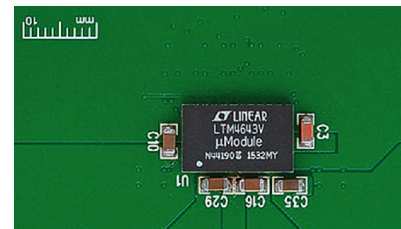
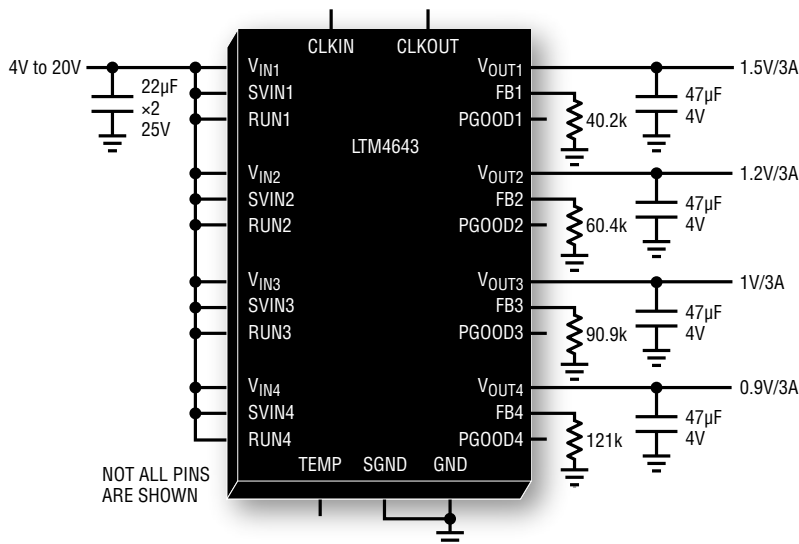
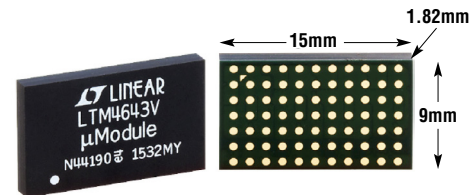
- Complete Solution in <math><1\text{cm}^2</math>
- Input Voltage Range: 3.6V to 20V
- 3.3V Input Compatible with  $V_{IN}$  Tied to  $INTV_{CC}$
- Output Voltage Range: 0.6V to 5.5V
- Dual 2.5A (3A Peak) or Single 5A Output Current
- 6.25mm x 6.25mm x 1.82mm (LGA) or 2.42mm (BGA)



LTM4622 Demo Board, Actual Size

### LTM4643: Ultrathin Quad 3A Output Step-Down µModule Regulator

- Wide Input Voltage Range: 4V to 20V
- 2.375V to 20V with External Bias
- Output Voltage Range: 0.6V to 3.3V
- 3A DC Output Current Each Channel
- 9mm x 15mm x 1.82mm LGA Package



LTM4643 Demo Board, Actual Size