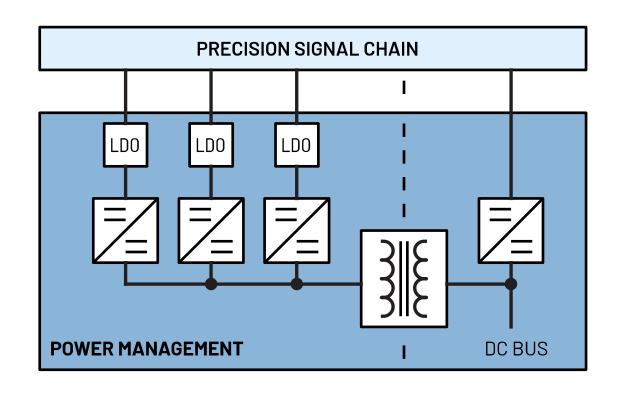


POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION LOW POWER

Single-Channel, 16 Bits, above 2.4 kSPS, Differential Input, Noise Optimized



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This document is interactive. You can click on any underlined text to navigate through the document.

For the resources:

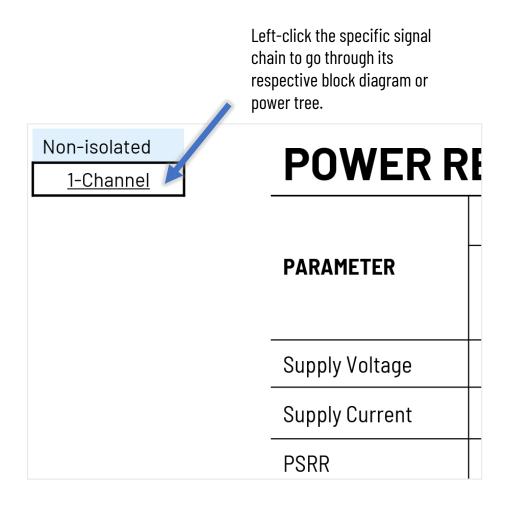
APPENDIX Power Requirements

Left-click the Parts Guide and Power Requirements to go through the list of power devices and other references.

The Power Components are listed on the Appendix, and you may click on the part to go through its product page online.

PART#		DESCRIPTION				
<u>LT3471</u> Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN		Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN				
	<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck				
	LT8570-1	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.				

For the individual pages:



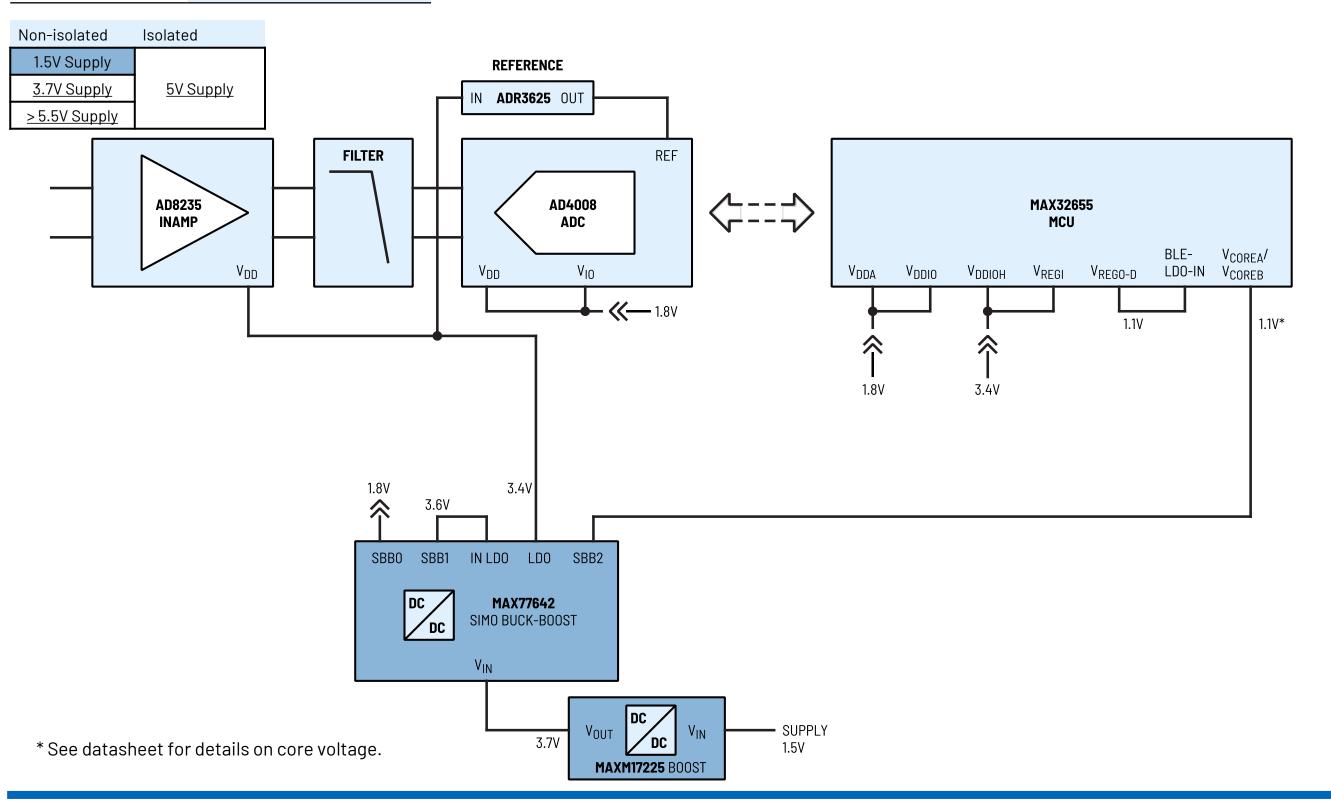


APPENDIX

Power Requirements

USER GUIDE

Single-Channel, 16 Bits, above 2.4 kSPS,
Differential Input, Noise Optimized



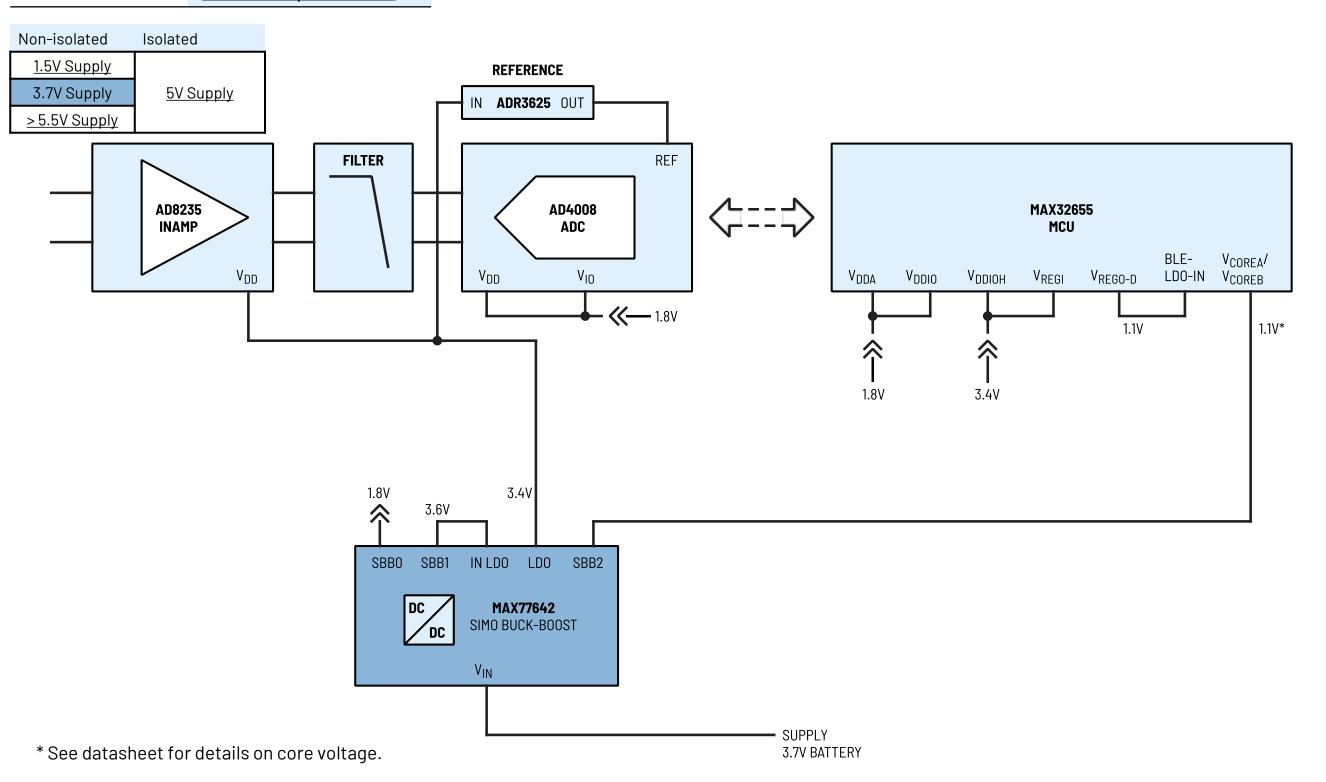


APPENDIX

Power Requirements

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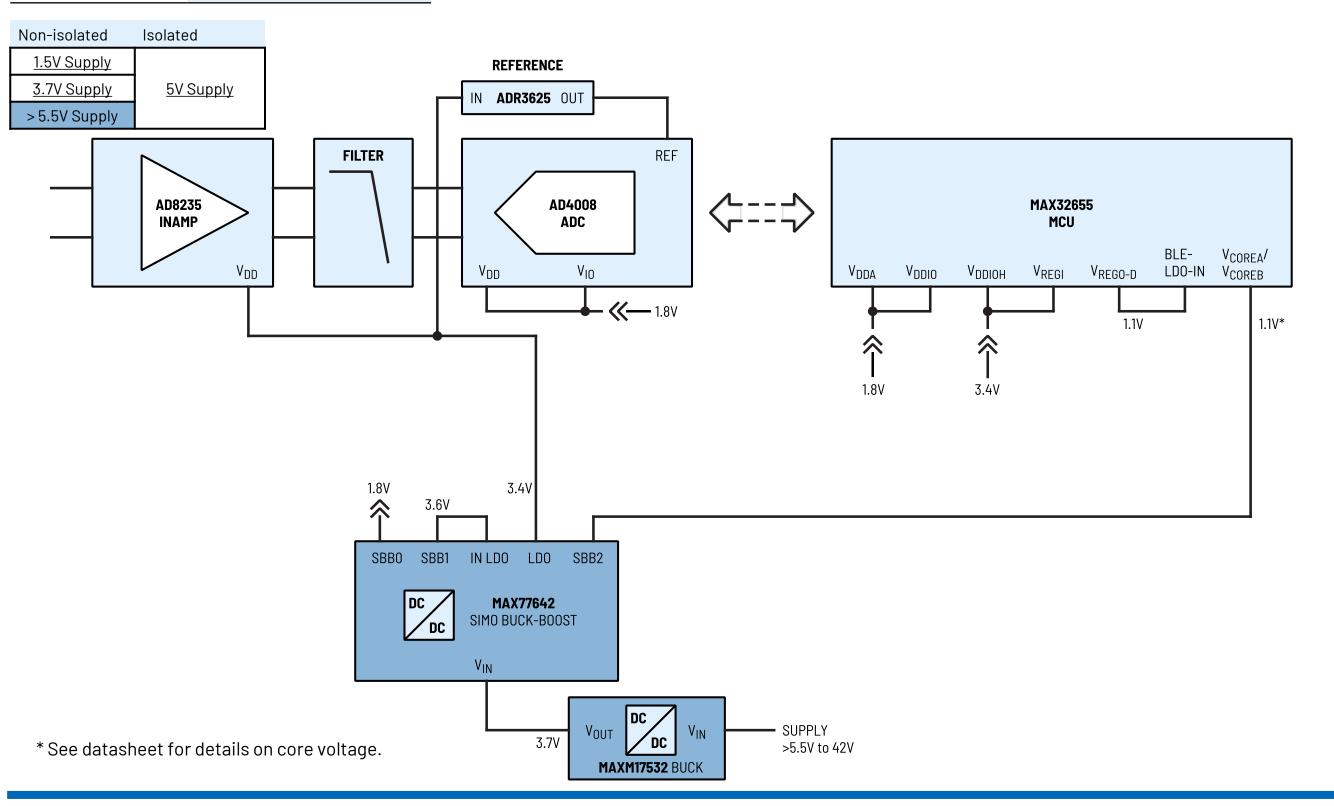
APPENDIX

Power Requirements

USER GUIDE

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Single-Channel, 16 Bits, above 2.4 kSPS,
Differential Input, Noise Optimized





APPENDIX

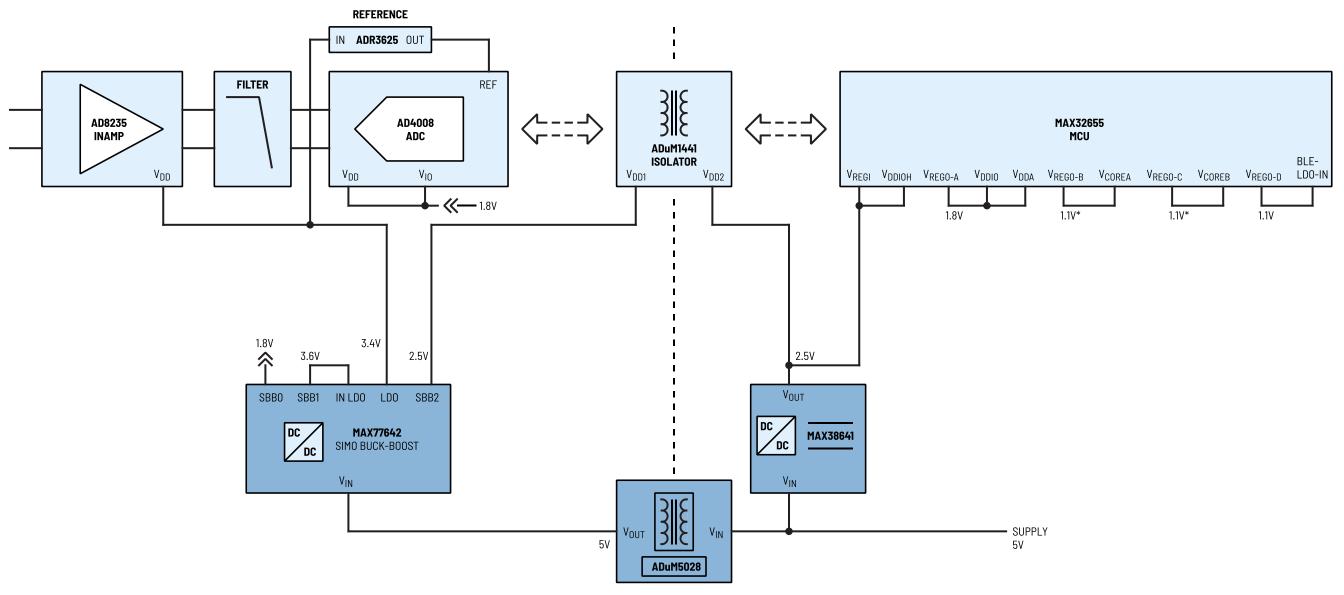
Power Requirements

USER GUIDE

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^{*} See datasheet for details on core voltage.

Single-Channel, 16 Bits, above 2.4 kSPS, Differential Input, Noise Optimized

Non-isolated	Isolated	
1.5V Supply		
3.7V Supply	<u>5V Supply</u>	
> 5.5V Supply		

PART #	DESCRIPTION					
MAX77642	Ultra Configurable PMIC Featuring 93% Peak Efficiency Single-Inductor, 3-Output Buck-Boost, 1-LDO for Long Battery Life					
MAXM17225	Tiny, 0.4V to 5.5V Input, 300nA IQ, nanoPower Boost Module with True Shutdown					
MAXM17532	4V to 42V, 100mA, Himalaya uSLIC Step-Down Power Module					
MAX38641	Tiny 1.8V to 5.5V Input, 330nA IQ, 700mA nanoPower Buck Converter					
ADuM5028	Low Emission Isolated DC to DC Converter					

Single-Channel, 16 Bits, above 2.4 kSPS, Differential Input, Noise Optimized

Non-isolated	Isolated			
1.5V Supply				
3.7V Supply	<u>5V Supply</u>			
> 5.5V Supply				

POWER REQUIREMENTS

	STAGES	In Amp		ADC		Reference	Isolation	
PARAMETER	Part #	AD8235		AD4008		ADR3625	<u>ADuM1441</u>	
	Pin	+V _S	-V _S	V _{DD}	V _{IO}	V _{IN}	V _{DD1}	V _{DD2}
Supply Voltage	V	3.4	-	1.8	1.8	3.4	2.5	2.5
Supply Current	mA	0.05	-	1.78	0.36	0.075	0.9	0.9
PSRR	dB	100 (400Hz)		66 (1MHz)	101 (1MHz)	64 (100kHz; C _L =10μF)	-	-

Note 1: The supply currents indicated are the maximum quiescent current of the supply rails. For overall full load or short circuit current specifications, refer to the datasheets of the signal chain components.

Note 2: The supply voltages indicated are the values for typical applications.

Note 3: Consult the corresponding datasheets for details on power dissipation if needed.

Note 4: The actual supply current requirement shall be multiplied depending on the number of channels on the signal chain.

Note 5: For the MCU power requirements, consult the datasheet.