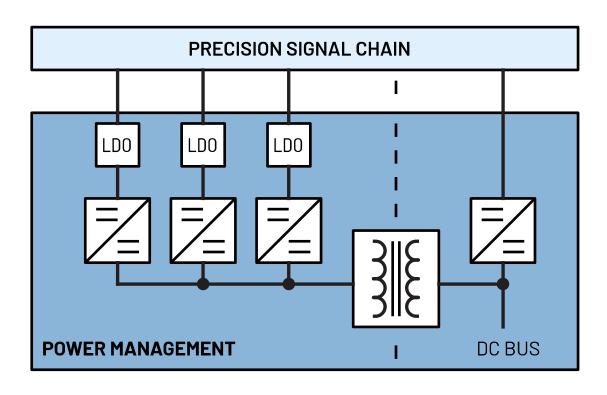


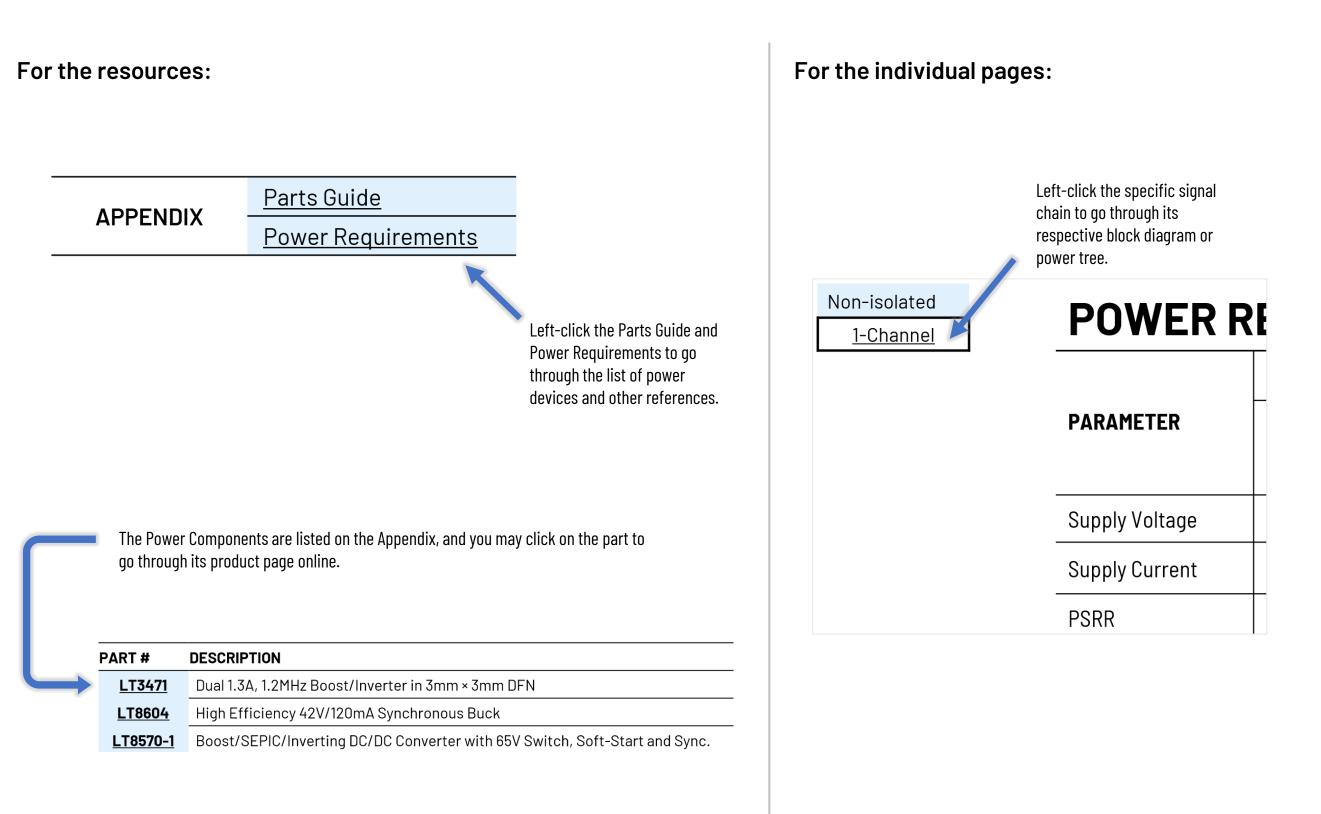
POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION LOW POWER Multichannel, Differential Input, 16 Bits, above 2.4 kSPS

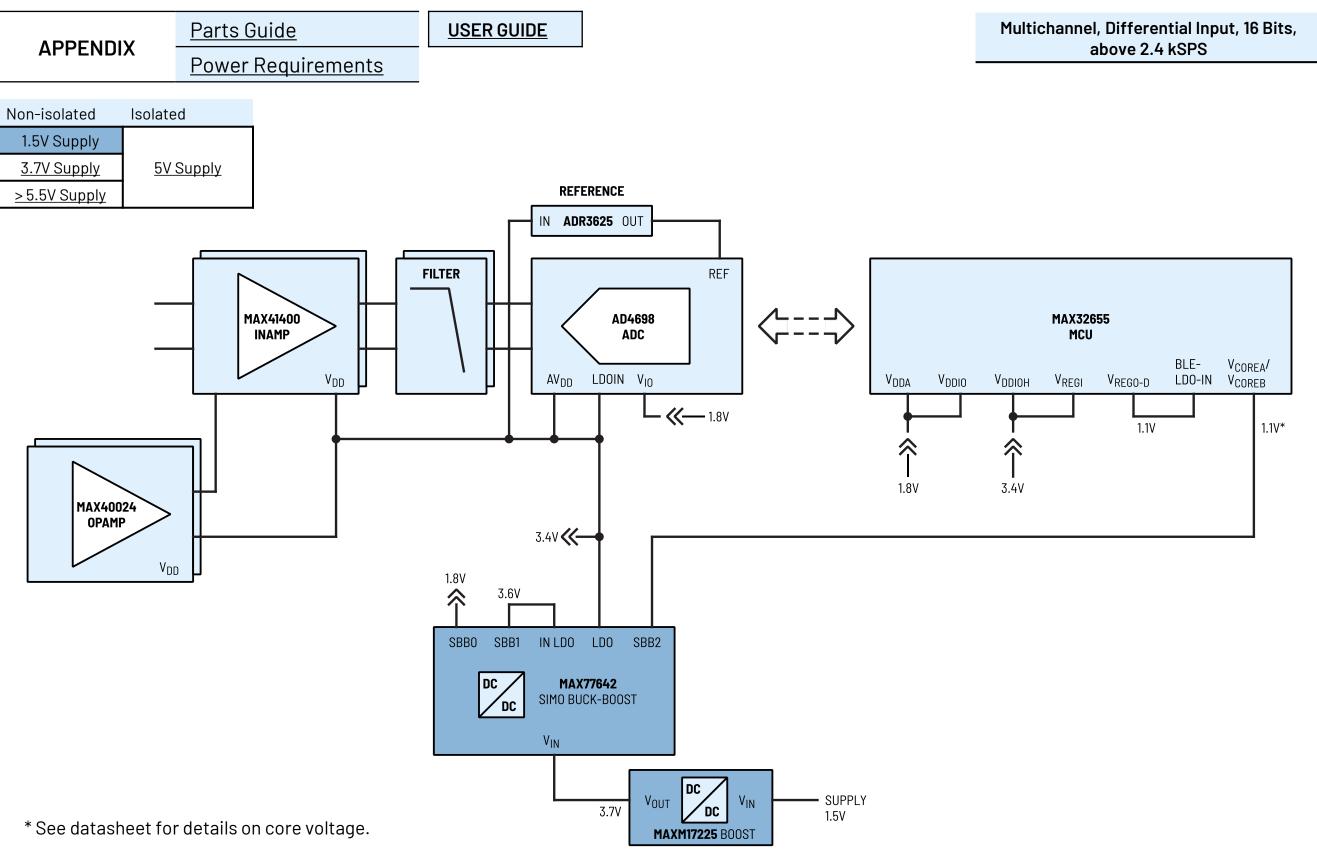


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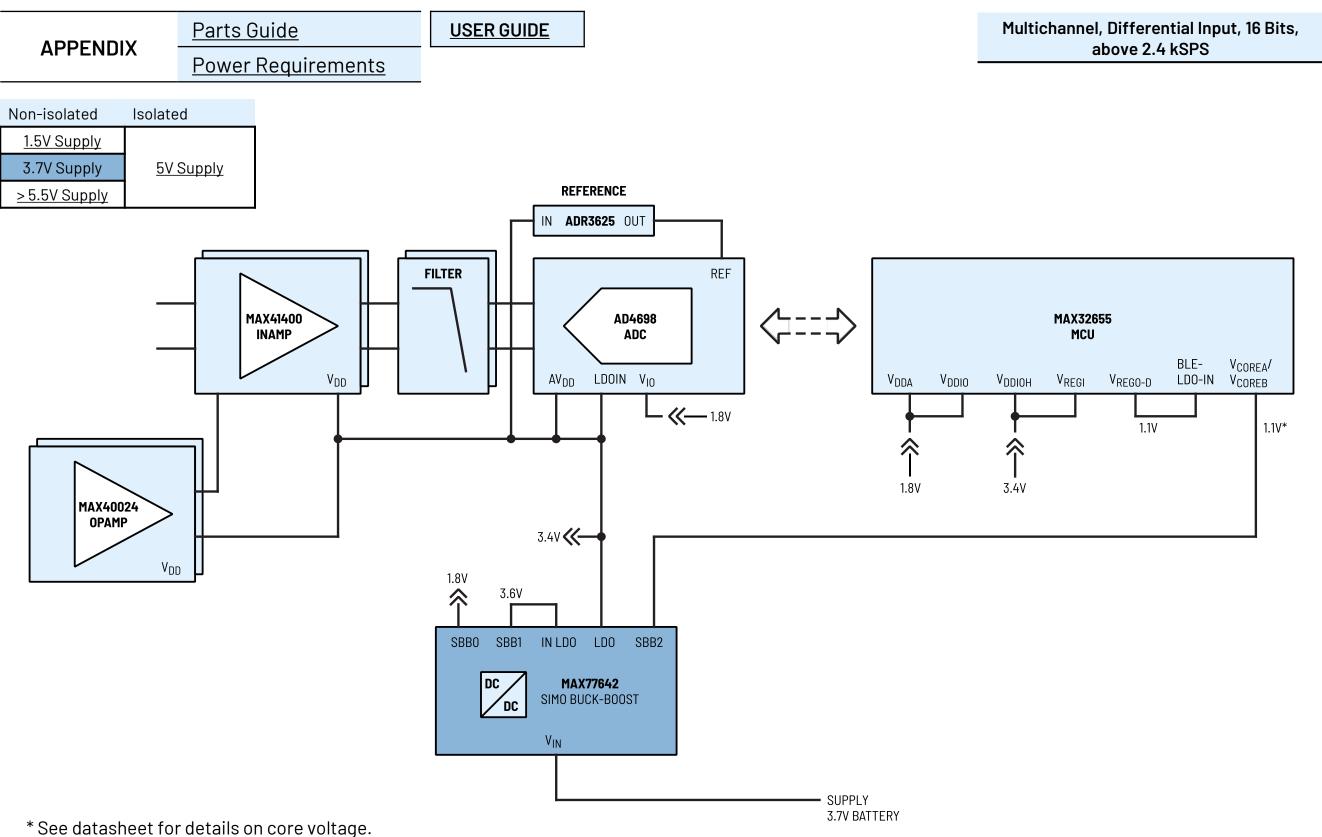
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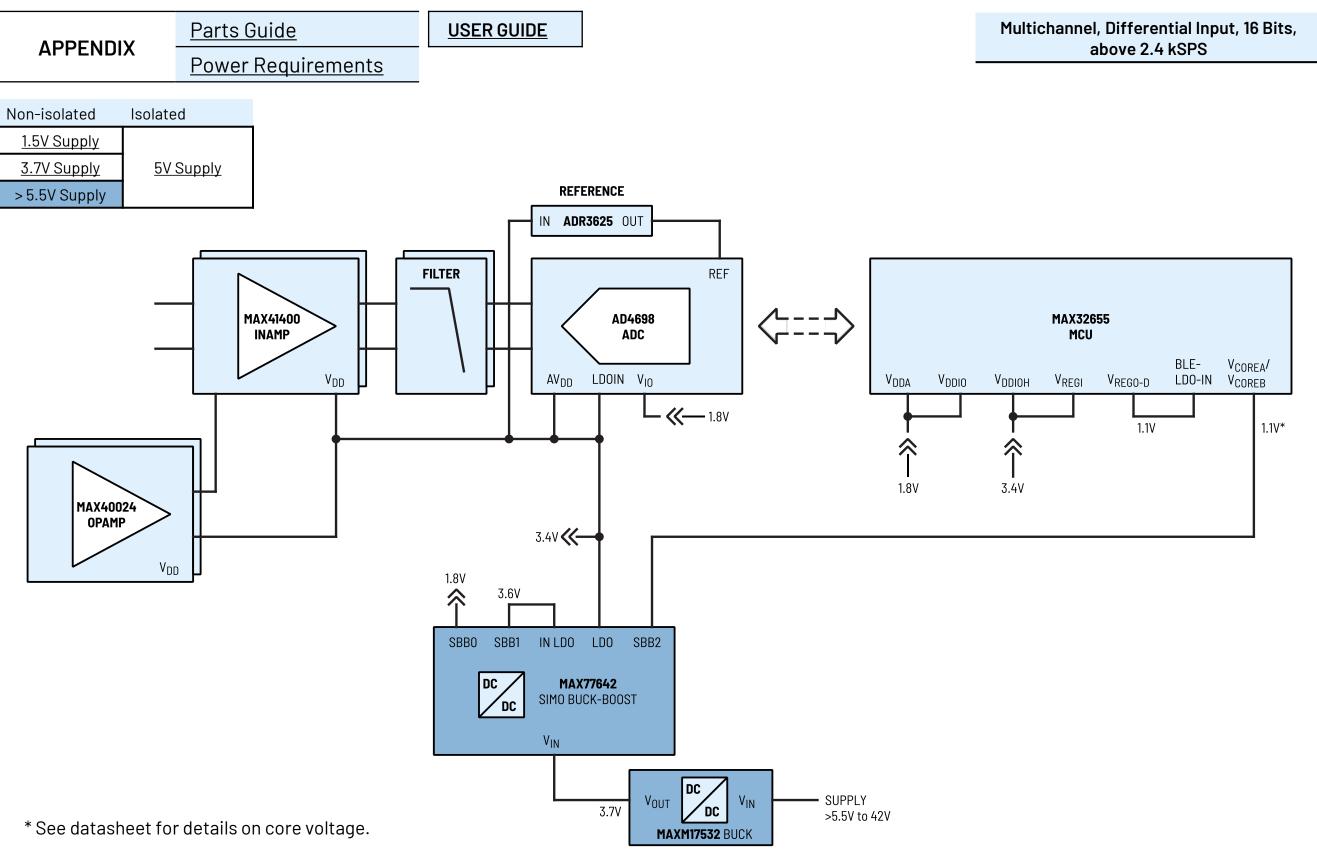




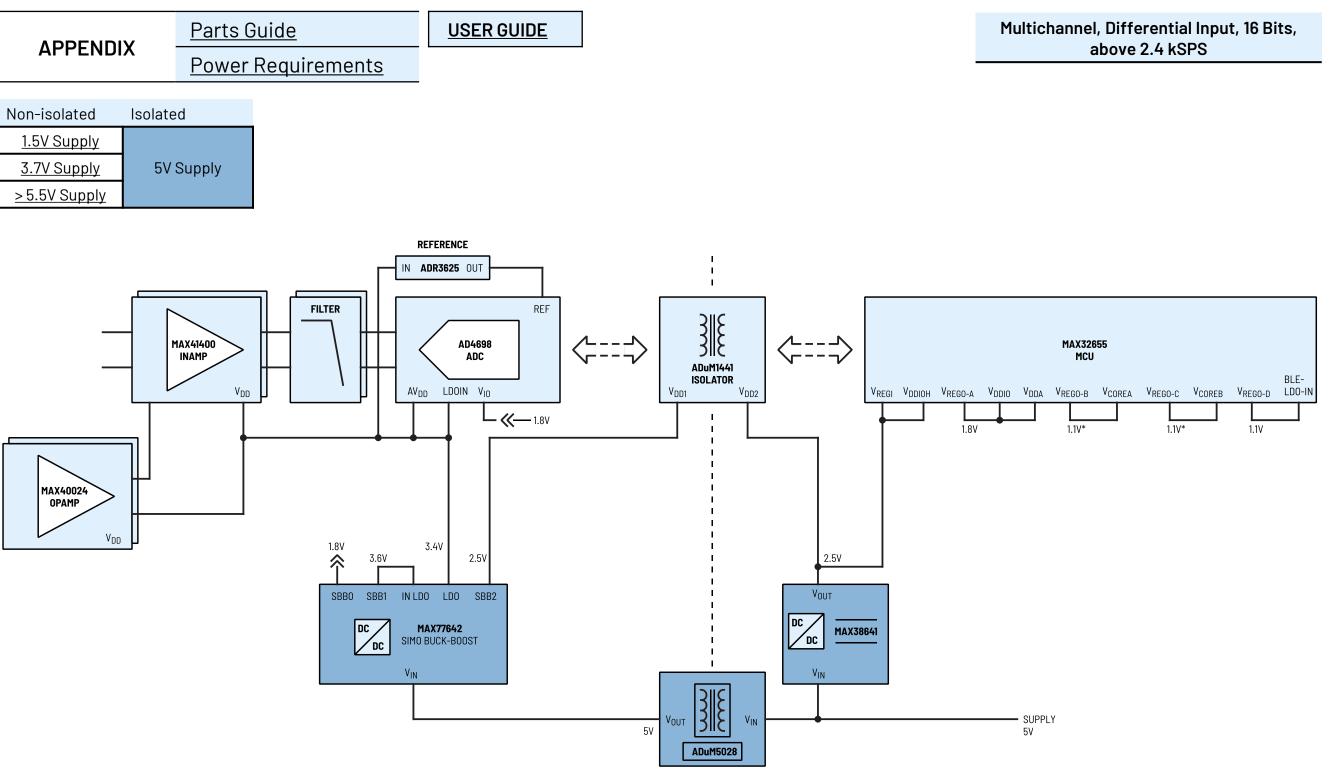












Precision Low Power

Multichannel, Differential Input, 16 Bits, above 2.4 kSPS

Isolated
5V Supply

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

Precision Low Power

Multichannel, Differential Input, 16 Bits, above 2.4 kSPS

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

	STAGES	In Amp		Op Amp		ADC			Reference	Isolation	
PARAMETER	Part #	<u>MAX41400</u>		MAX40024		<u>AD4698</u>			ADR3625	<u>ADuM1441</u>	
	Pin	V _{DD}	-	V _{DD}	-	AV _{DD}	LD0 _{IN}	V _{IO}	V _{IN}	V _{DD1}	V_{DD2}
Supply Voltage	V	3.4	-	3.4		3.4	3.4	1.8	3.4	2.5	2.5
Supply Current	mA	0.069	-	0.016		1.78	6.6	0.36	0.075	0.9	0.9
PSRR	dB	12 (100kHz)		27 (10)kHz)	66 (1MHz)	88 (1MHz)	101 (1MHz)	64 (100kHz; C _L =10μF)	-	-

POWER REQUIREMENTS

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.