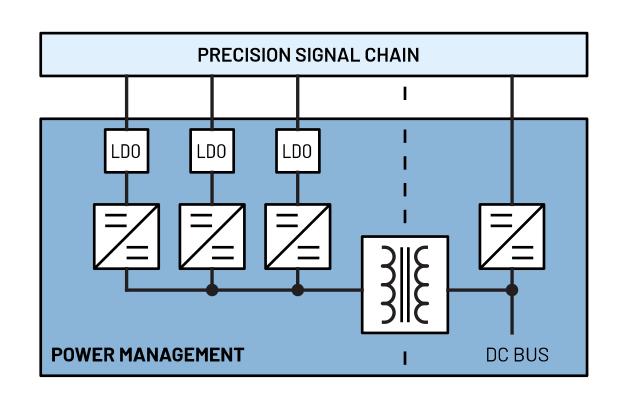


POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION MEDIUM BANDWIDTH Edge Node Vibration Sensing 3-Axis Sensing

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

For the resources:

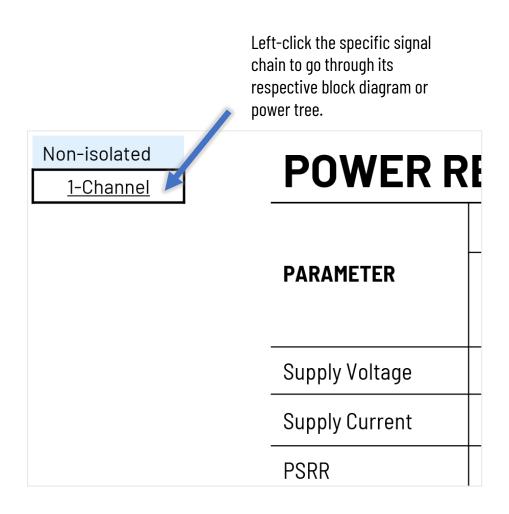
APPENDIX Power Requirements

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				
	LT8604	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:





Precision Medium Bandwidth

Edge Node Vibration Sensing

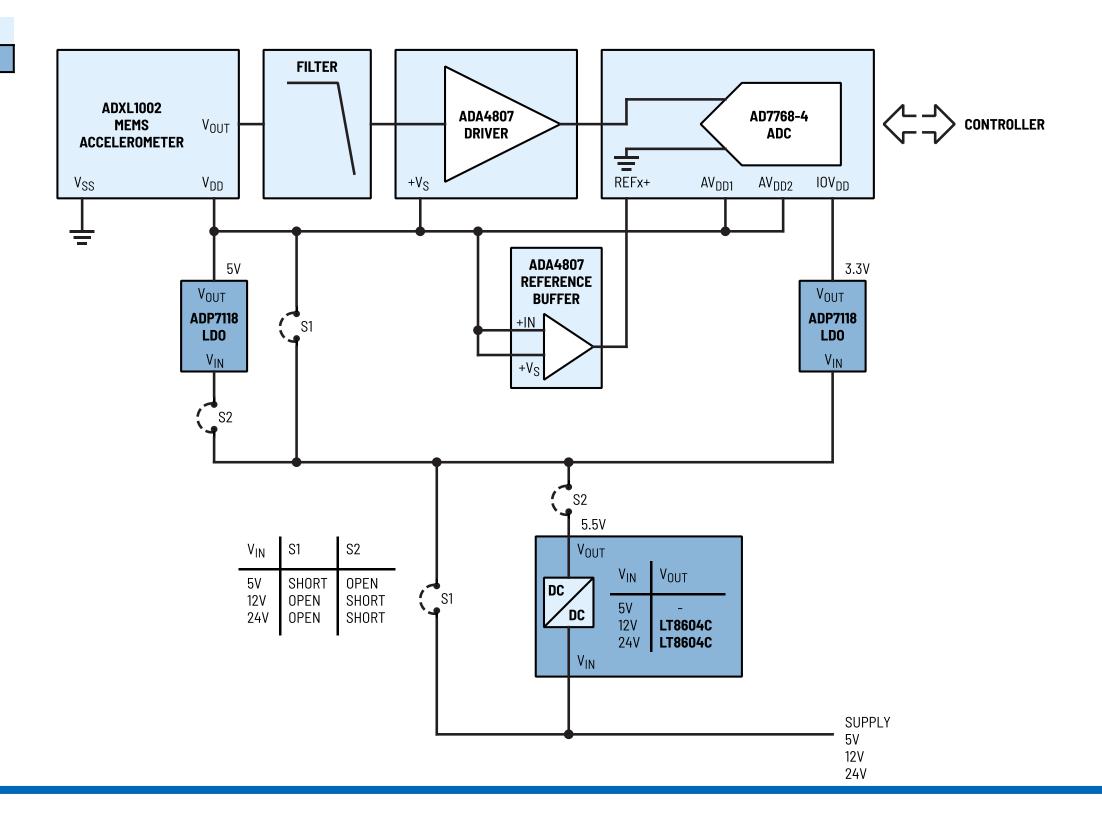
3-Axis Sensing

APPENDIX

Power Requirements

USER GUIDE

Non-isolated Multichannel



Precision Medium Bandwidth

Edge Node Vibration Sensing

3-Axis Sensing

Non-isolated			
<u>Multichannel</u>			

PART #	DESCRIPTION			
<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck			
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator			

Precision Medium Bandwidth

Edge Node Vibration Sensing

3-Axis Sensing

Non-isolated

Multichannel

POWER REQUIREMENTS

	STAGES	MEMS Accelerometer	ADC Driver	ADC			Ref. Buffer
DADAMETED	Part #	ADXL1002	<u>ADA4807-2</u>	<u>AD7768-4</u>			ADA4807-1
PARAMETER	Pin	V _{DD}	+V _S	AV _{DD1}	AV _{DD2}	IOV _{DD}	+V _S
Supply Voltage	V	5	5	5	5	3.3	5
Supply Current	mA	1.15	6 (per amp)	33	20	47	6
PSRR	dB	-	73 (1MHz)	98 (1MHz)	98 (1MHz)	98 (1MHz)	73 (1MHz)

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: (1) power supply rejection ratio (PSRR) and (2) power dissipation.

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