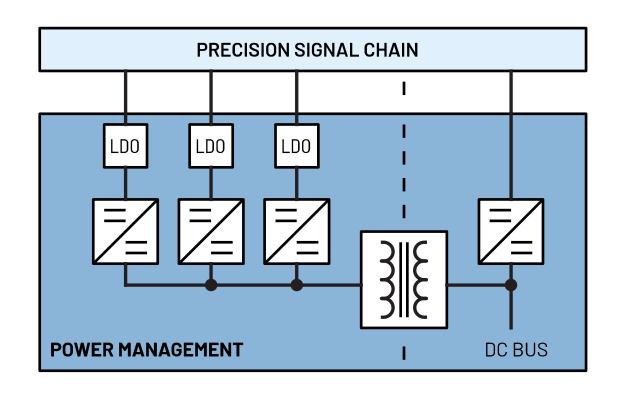


POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION HIGH VOLTAGE High Common-Mode Current Measurement Performance/Size Optimized

Rev. 0 | Mar. 2022



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

For the resources:

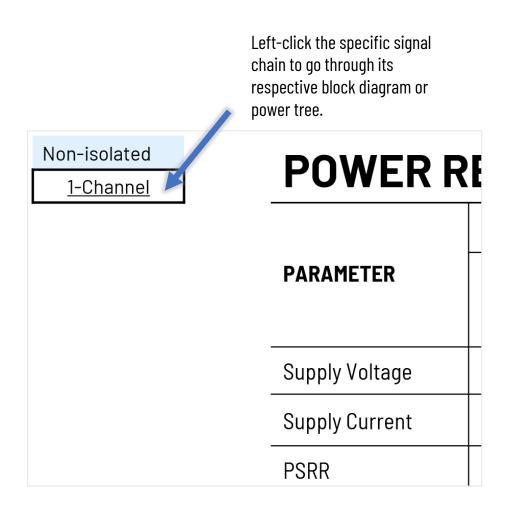
APPENDIX Power Requirements

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 1.3		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:





APPENDIX

Parts Guide

Power Requirements

USER GUIDE

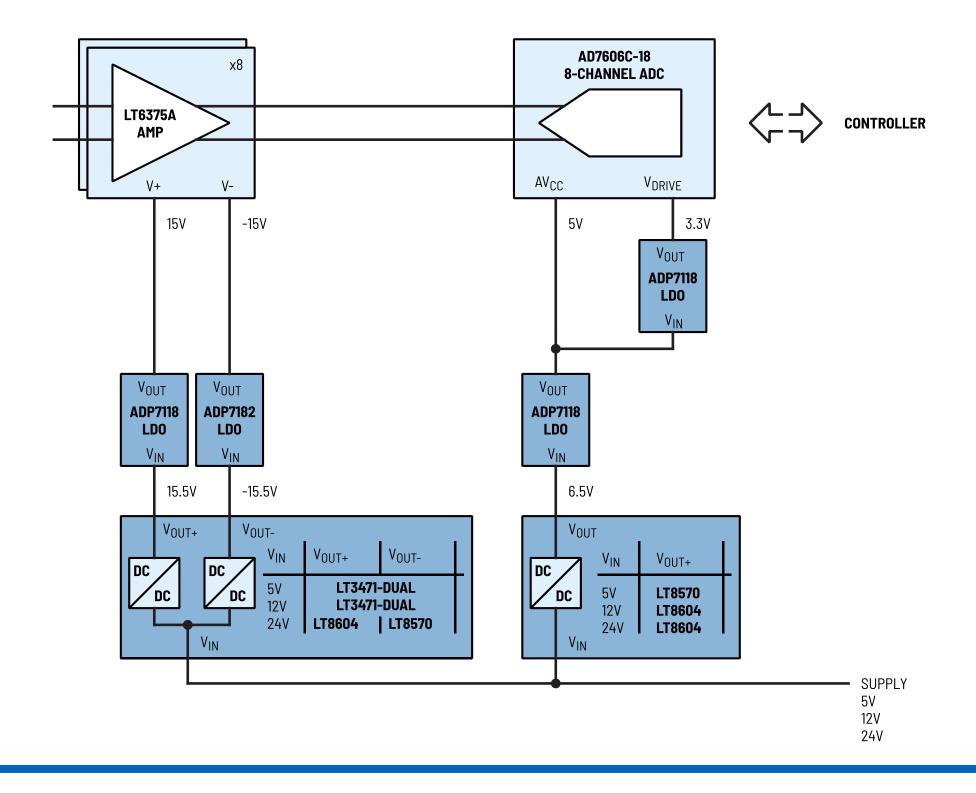
Performance/Size Optimized

High Common-Mode Current Measurement

Non-isolated; Multichannel

With LT6375A Amplifier

With AD8479 Amplifier





APPENDIX

Parts Guide

USER GUIDE

Performance/Size Optimized

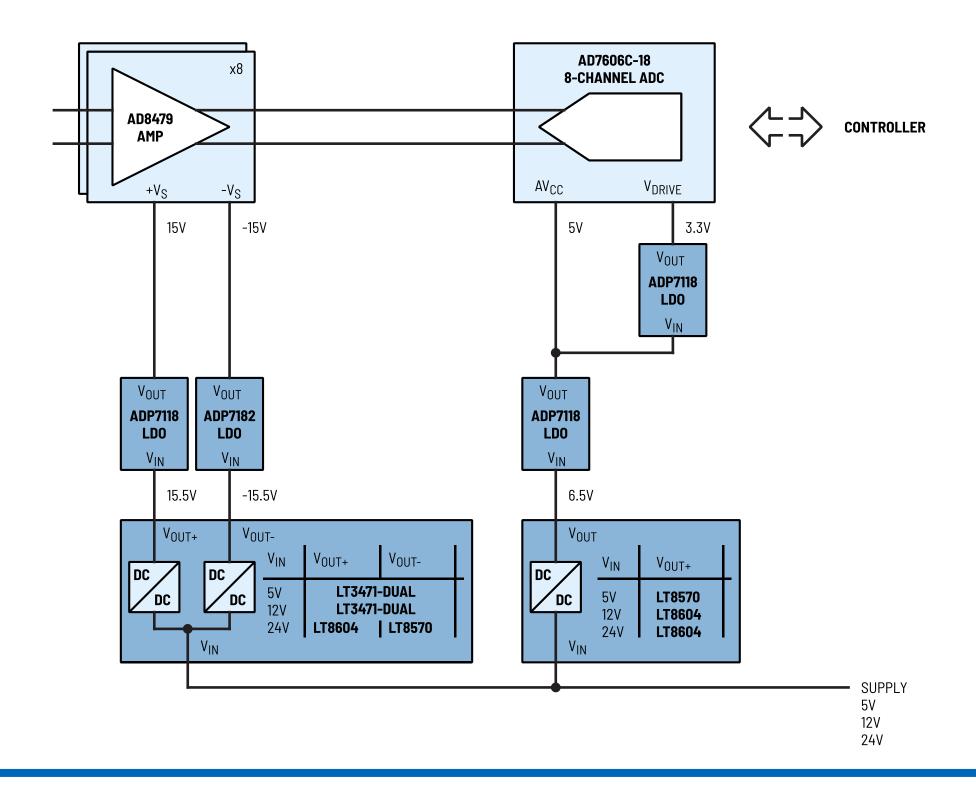
High Common-Mode Current Measurement

Power Requirements

Non-isolated; Multichannel

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High Common-Mode Current Measurement

Performance/Size Optimized

Non-isolated; Multichannel

With LT6375A Amplifier

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PART #	DESCRIPTION				
LT3471	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm ×3mm DFN				
<u>LT8570</u>	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.				
<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck				
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator				
<u>ADP7182</u>	–28V, –200mA, Low Noise, Linear Regulator				

High Common-Mode Current Measurement

Performance/Size Optimized

Non-isolated; Multichannel

With LT6375A Amplifier

With AD8479 Amplifier

POWER REQUIREMENTS

	STAGES	ADC		Amplifier		
PARAMETER	Part #	AD7606C-18		[1] [2]	<u>LT6375A</u> <u>AD8479</u>	
	Pin	AV _{CC}	V _{DRIVE}		V+ / +V _S	V- / -V _S
Supply Voltage	V	5	3.3	[1] [2]	15 15	-15 -15
Supply Current	mΑ	50	1.9	[1] [2]	0.6 0.85	-0.6 -0.85
PSRR	dB	60	-	[1] [2]	30 (100kHz) 33 (100kHz)	15 (100kHz) 13 (100kHz)

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.