

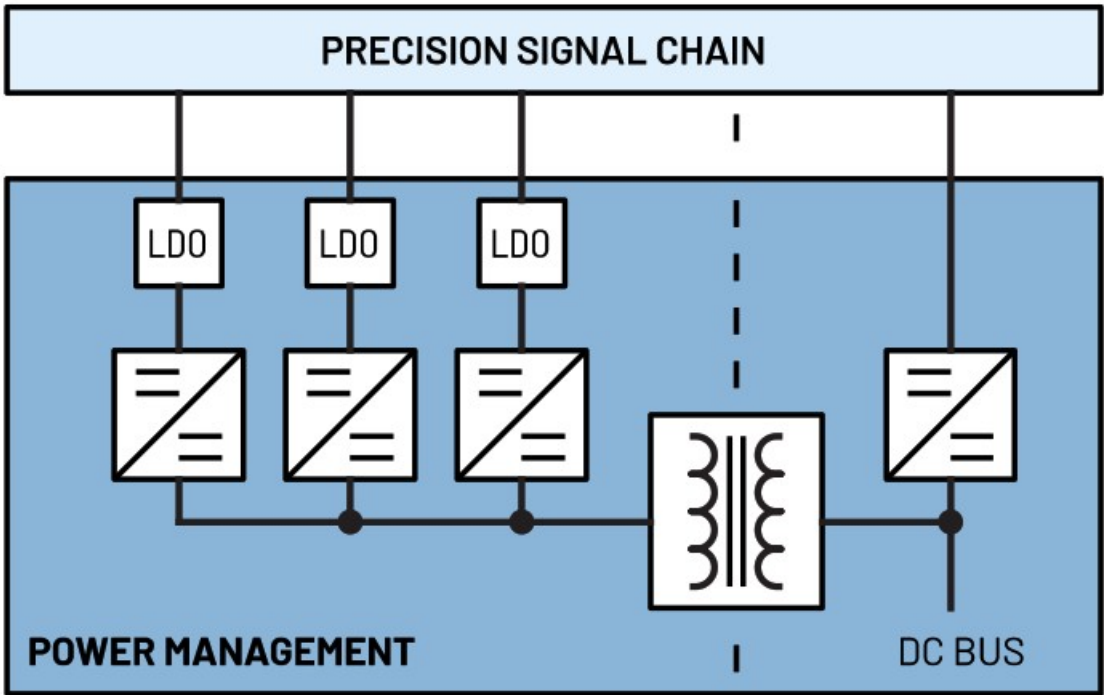
# ANALOG DEVICE Fully Integrated Voltage and Current Measurement Multiplexed User Guide

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AHEAD OF WHAT'S POSSIBLE™

POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS  
PRECISION NARROW BANDWIDTH  
Fully Integrated Voltage and Current Measurement  
Density and Latency Optimized Sensor Ready  
Rev. 0 | Jan. 2022



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

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## APPENDIX

For the resources:

APPENDIX	<a href="#">Parts Guide</a>
	<a href="#">Power Requirements</a>

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

For the individual pages:

Left-click the specific signal chain to go through its respective block diagram or power tree.

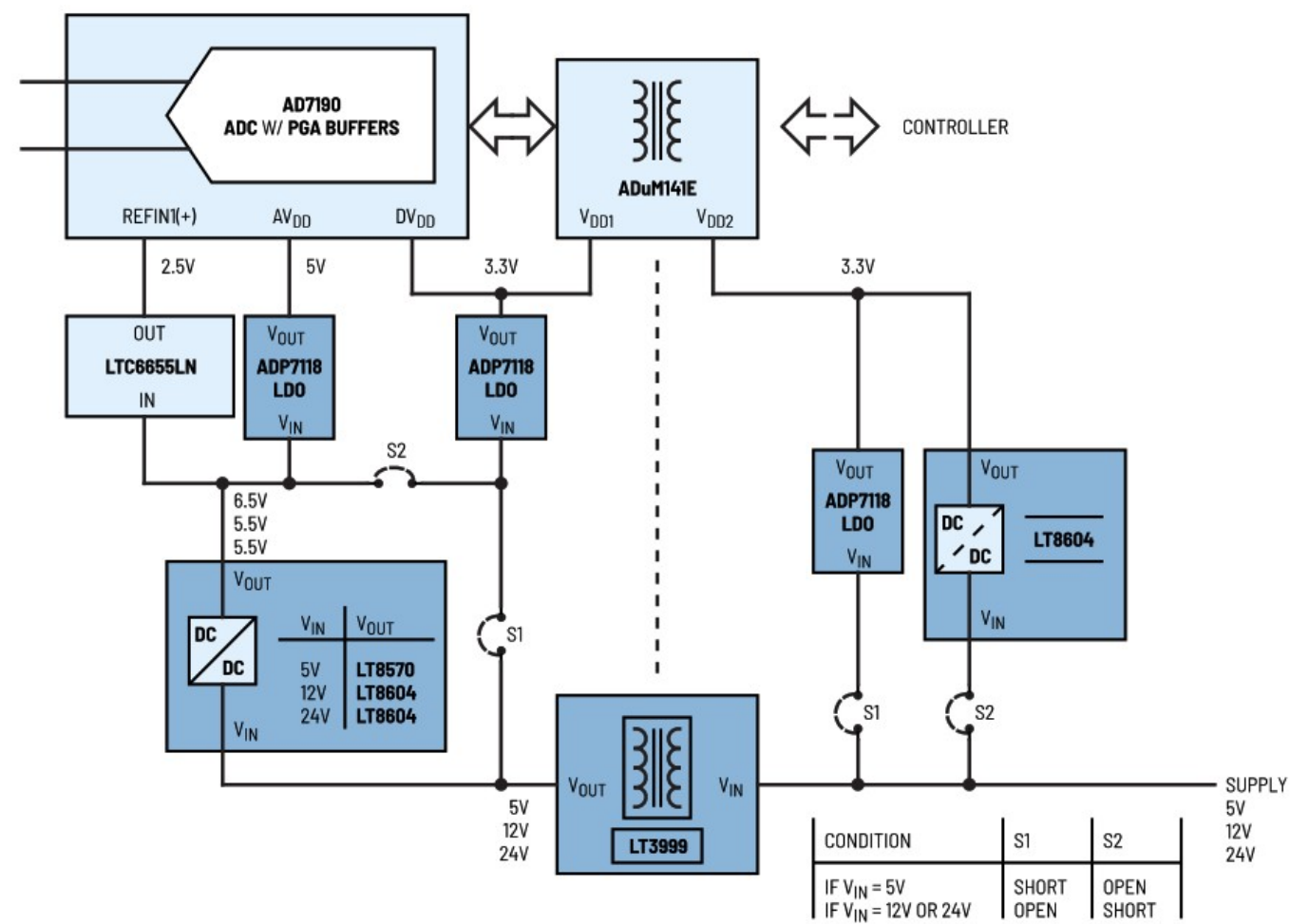
Non-isolated

1-Channel

# POWER RE

PARAMETER	
Supply Voltage	
Supply Current	
PSRR	

Isolated Multichannel



PART #	DESCRIPTION
LT8604	High Efficiency 42V/120mA Synchronous Buck
LT8570	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start, and Sync.
LT3999	Low Noise, 1A, 1MHz Push-Pull DC/DC Driver with Duty Cycle Control
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator

## POWER REQUIREMENTS

PARAMETER	ADC		Reference	Isolation	
	AD7190		LTC6655LN	ADuM141E	
	4V00	DVDD	IN	V001	V002
Supply Voltage	5	3.3	5	3.3	3.3
Supply Current	7.4	1.5	1.8	14.9	12.8
PSRR	95(G=1 Vin=1V)		40 (10k Hz)	—	

**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.

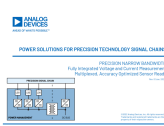
**Note 3:** Consult the corresponding datasheets for details on power dissipation if needed.

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

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## Documents / Resources

	<p><a href="#">ANALOG DEVICE Fully Integrated Voltage and Current Measurement Multiplexed</a> [pdf] User Guide</p> <p>Fully Integrated Voltage and Current Measurement Multiplexed, Current Measurement Multiplexed, Measurement Multiplexed, Multiplexed</p>
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