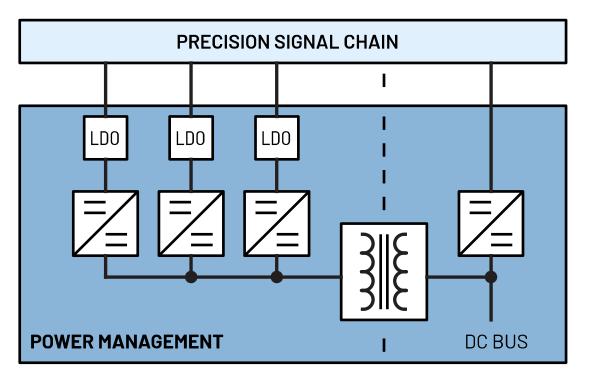


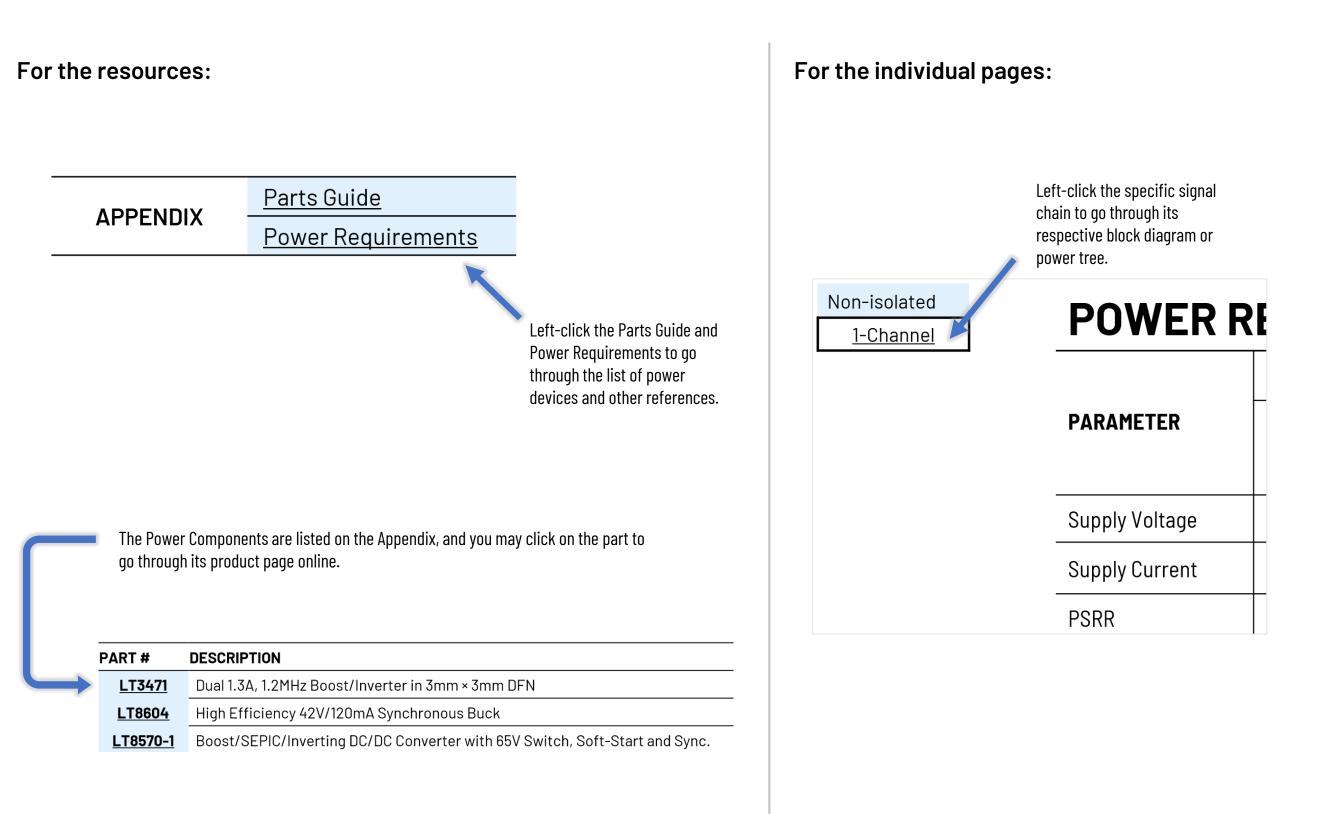
# **POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS**

## PRECISION NARROW BANDWIDTH Adaptable Voltage and Current Measurement Lowest Noise and Lowest Drift

Rev. 0 | Jan. 2022

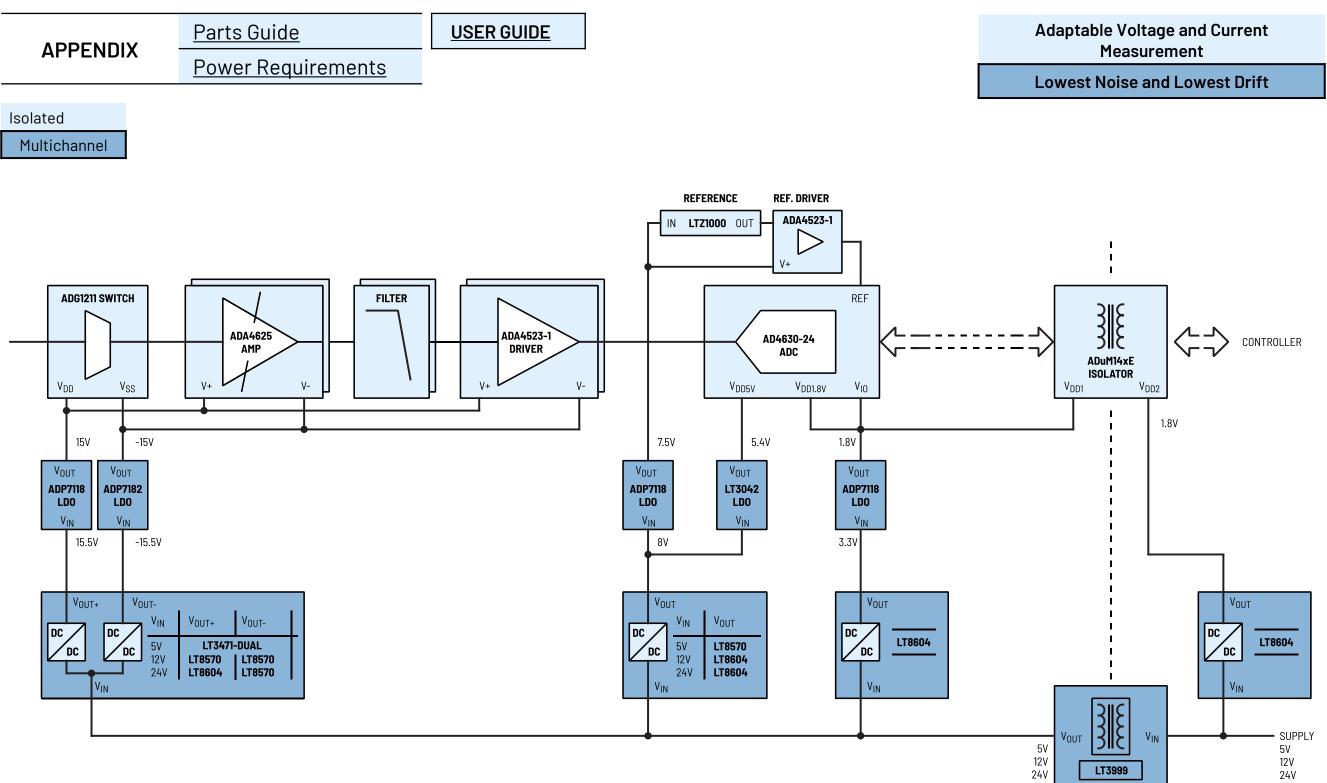


©2022 Analog Devices, Inc. All rights reserved. Trademarks and registered trademarks are the property of their respective owners. This document is interactive. You can click on any <u>underlined</u> text to navigate through the document.





#### **Precision Narrow Bandwidth**



### Precision Narrow Bandwidth

Adaptable Voltage and Current

Measurement

Lowest Noise and Lowest Drift

lsolated	PART #	DESCRIPTION								
<u>Multichannel</u>	<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck								
	<u>LT3471</u>	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm ×3mm DFN								
	<u>LT8570</u>	st/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.								
	<u>LT3999</u>	Low Noise, 1A, 1MHz Push-Pull DC/DC Driver with Duty Cycle Control								
	<u>ADP7118</u>	20V, 200mA, Low Noise, CMOS LDO Linear Regulator								
	<u>ADP7182</u>	–28V, –200mA, Low Noise, Linear Regulator								
	<u>LT3042</u>	20V, 200mA, Ultralow Noise, Ultrahigh PSRR RF Linear Regulator								

Isolated

#### **Precision Narrow Bandwidth**

Adaptable Voltage and Current

Measurement

Lowest Noise and Lowest Drift

	STAGES	Protection		Gain		Filter	ADC D	river	ADC			Reference	Ref. D	Ref. Driver		Isolation	
PARAMETER	Part #	<u>ADG1211</u>		<u>ADA4625</u>		-	<u>ADA4523-1</u>		<u>AD4630-24</u>			<u>LTZ1000</u>	<u>ADA4523-1</u>		ADuM14xE		
	Pin	V <sub>DD</sub>	V <sub>SS</sub>	V+	V-		V+	V-	V <sub>DD_1.8V</sub>	V <sub>IO</sub>	V <sub>DD_5V</sub>	IN	V+	V-	V <sub>DD1</sub>	V <sub>DD2</sub>	
Supply Voltage	V	15	-15	15	-15	-	15	-15	1.8	1.8	5.4	7.5	5	-	1.8	1.8	
Supply Current	mA	0.38	-0.001	4.8	-4.8	-	6	-6	11.2	0.6	3.2	5	6	-	14	11.2	
PSRR	dB		-	75		-	140		-			-	140		-		

#### **POWER REQUIREMENTS** Multichannel

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.