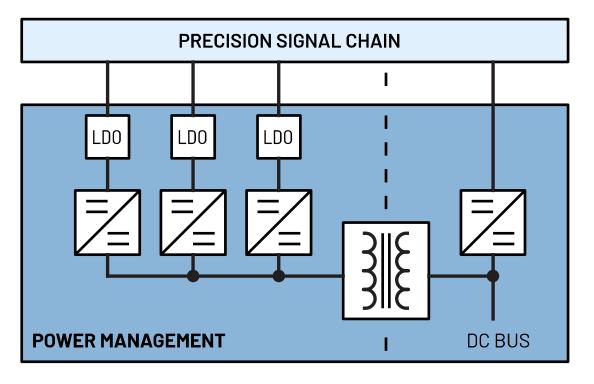


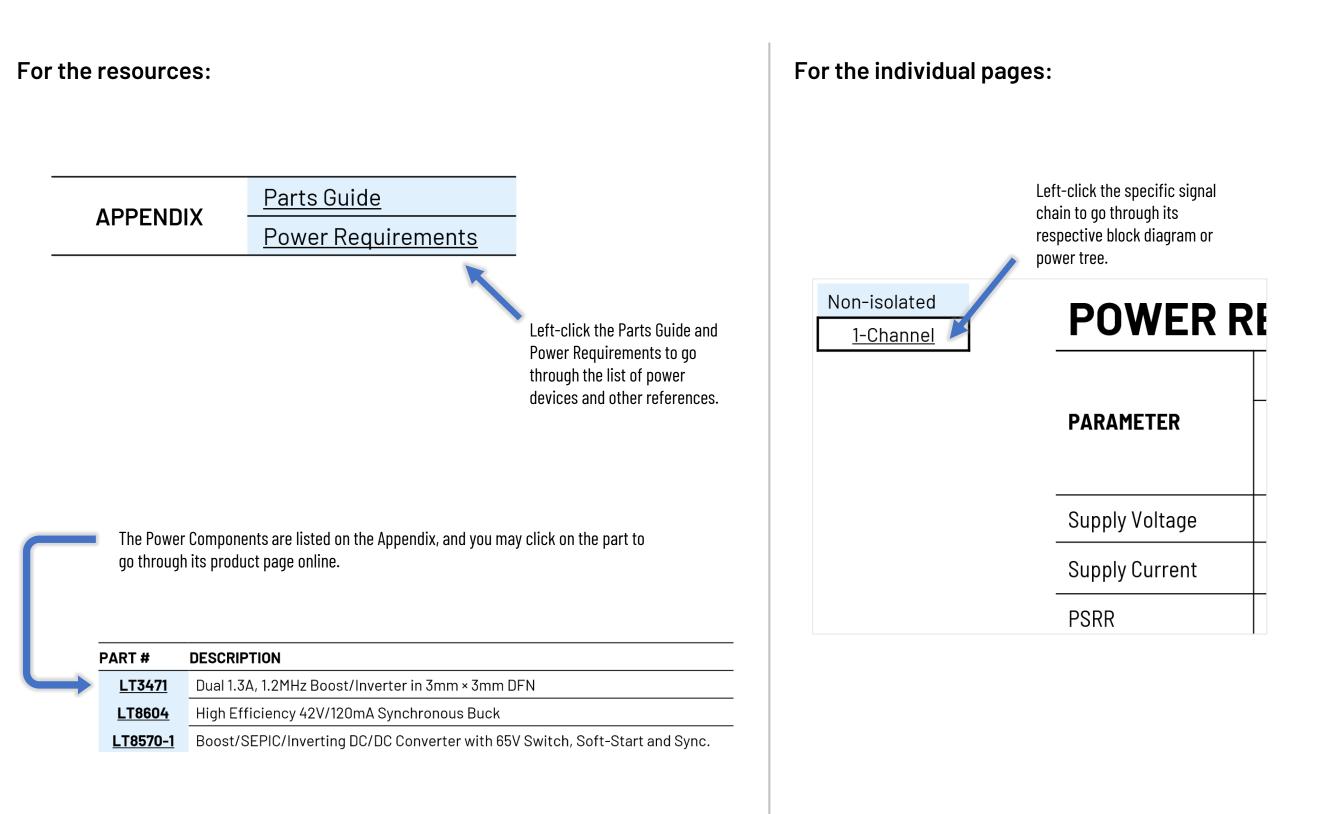
# **POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS**

## PRECISION NARROW BANDWIDTH Adaptable Voltage and Current Measurement Optimum Precision, Outstanding Stability

Rev. 0 | Jan. 2022

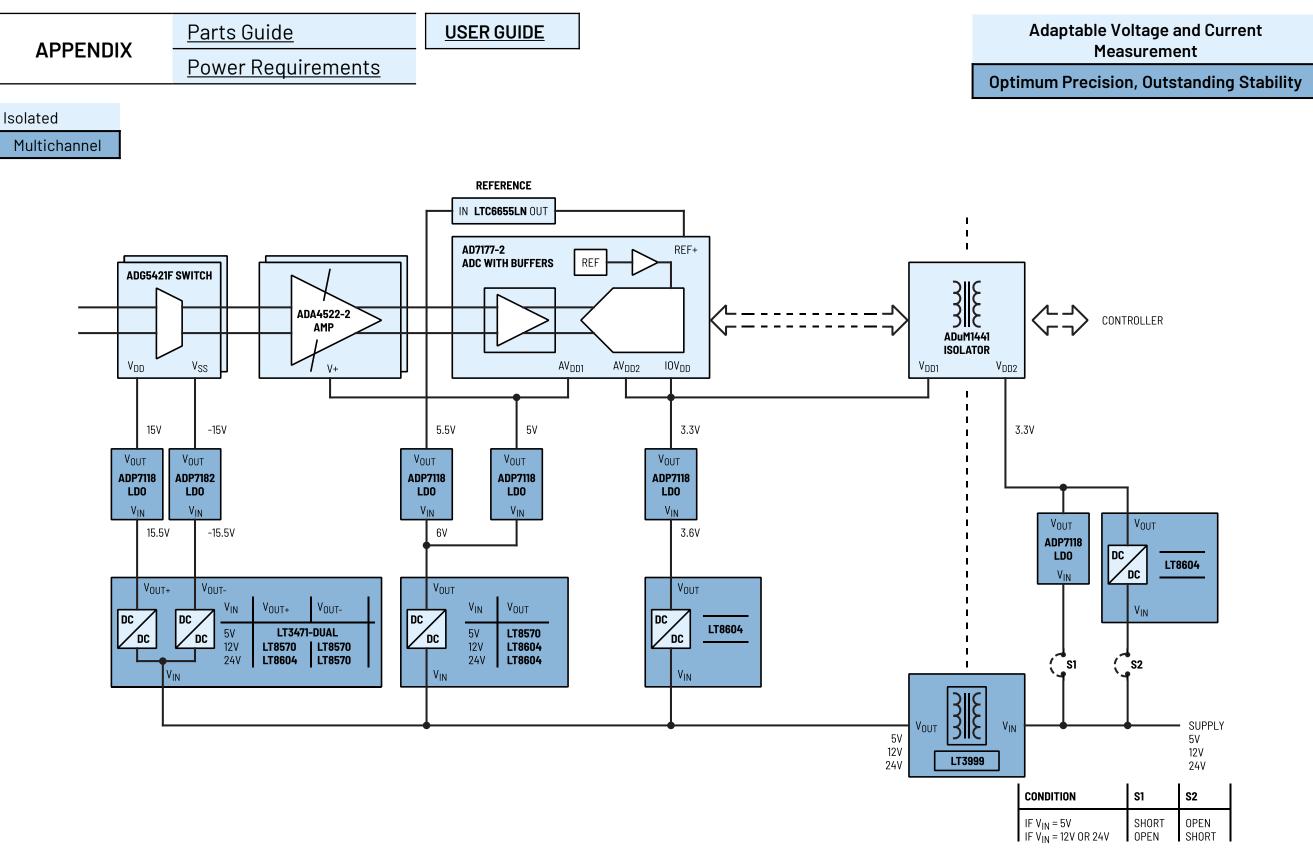


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#### **Precision Narrow Bandwidth**



### Precision Narrow Bandwidth

Adaptable Voltage and Current

Measurement

Optimum Precision, Outstanding Stability

lsolated Multichannel	PART #	ESCRIPTION							
<u>Huttendinier</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>	Boost/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							

Isolated

#### **Precision Narrow Bandwidth**

Adaptable Voltage and Current Measurement

**Optimum Precision, Outstanding Stability** 

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		STAGES	Protection		Gain	Filter	ADC			Reference	Isolation				
	PARAMETER	Part #	ADG5421F		<u>ADA4522-2</u>	-	<u>AD7177-2</u>			<u>LTC6655LN</u>	<u>ADuM1441</u>				
		Pin	V <sub>DD</sub>	V <sub>SS</sub>	V+		AV <sub>DD1</sub>	$AV_{DD2}$	IOV <sub>DD</sub>	IN	V <sub>DD1</sub>	V <sub>DD2</sub>			
	Supply Voltage	V	15	-15	5	-	5	3.3	3.3	5.5	3.3	3.3			
	Supply Current	mA	0.190	-0.190	0.95	-	16	5.2	3.1	1.8	0.9	0.9			
	PSRR	dB 58 (1MHz)		145	-	70 (10kHz)			40 (10kHz)	-					

#### **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.