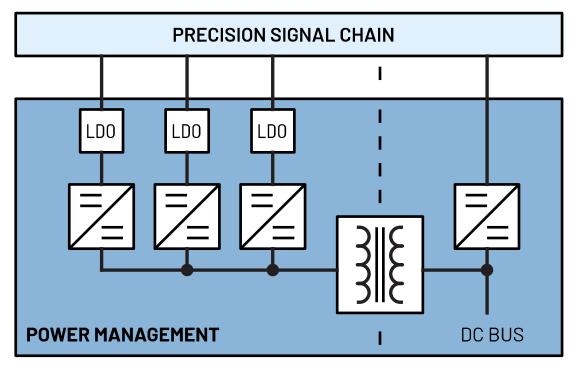


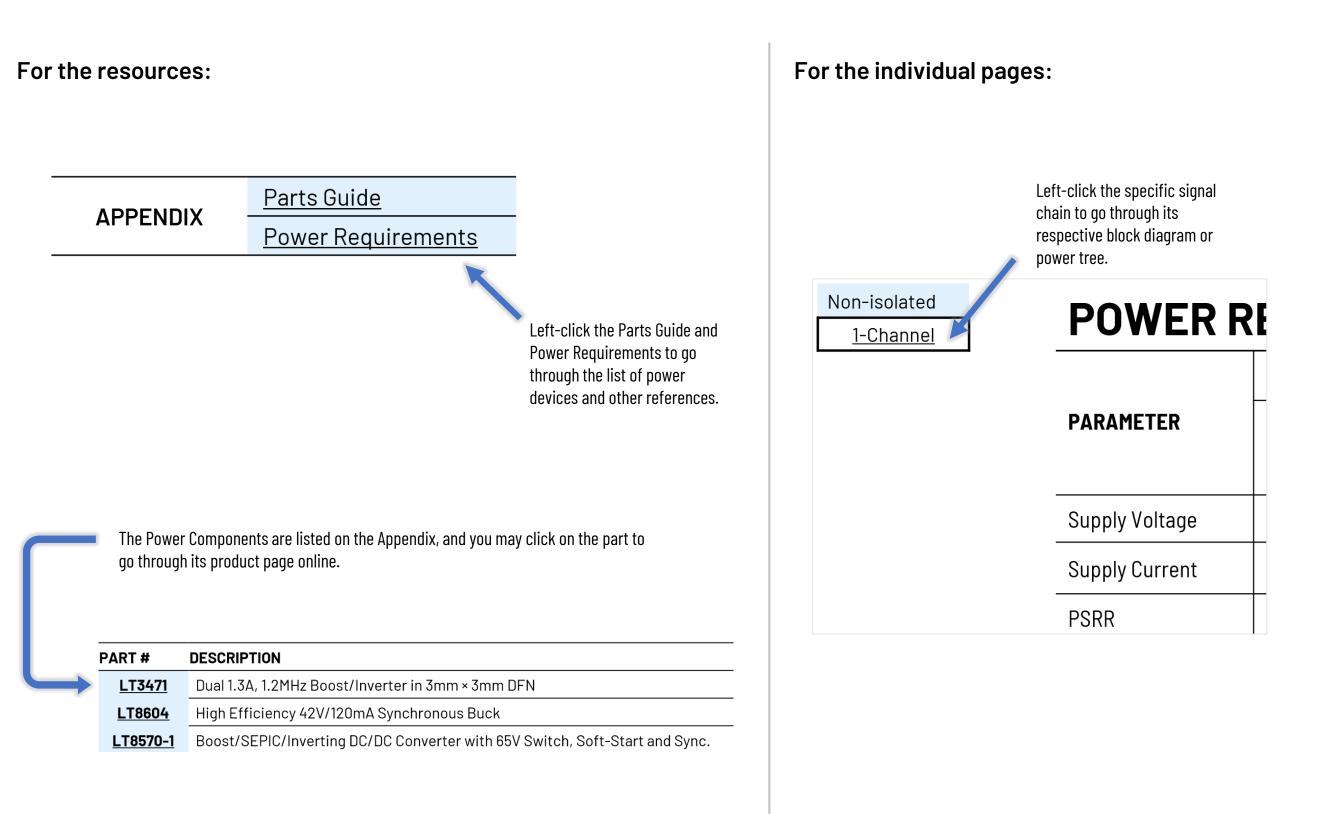
POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION NARROW BANDWIDTH Fully Integrated Voltage and Current Measurement Multiplexed, Accuracy Optimized Sensor Ready

Rev. 0 | Jan. 2022

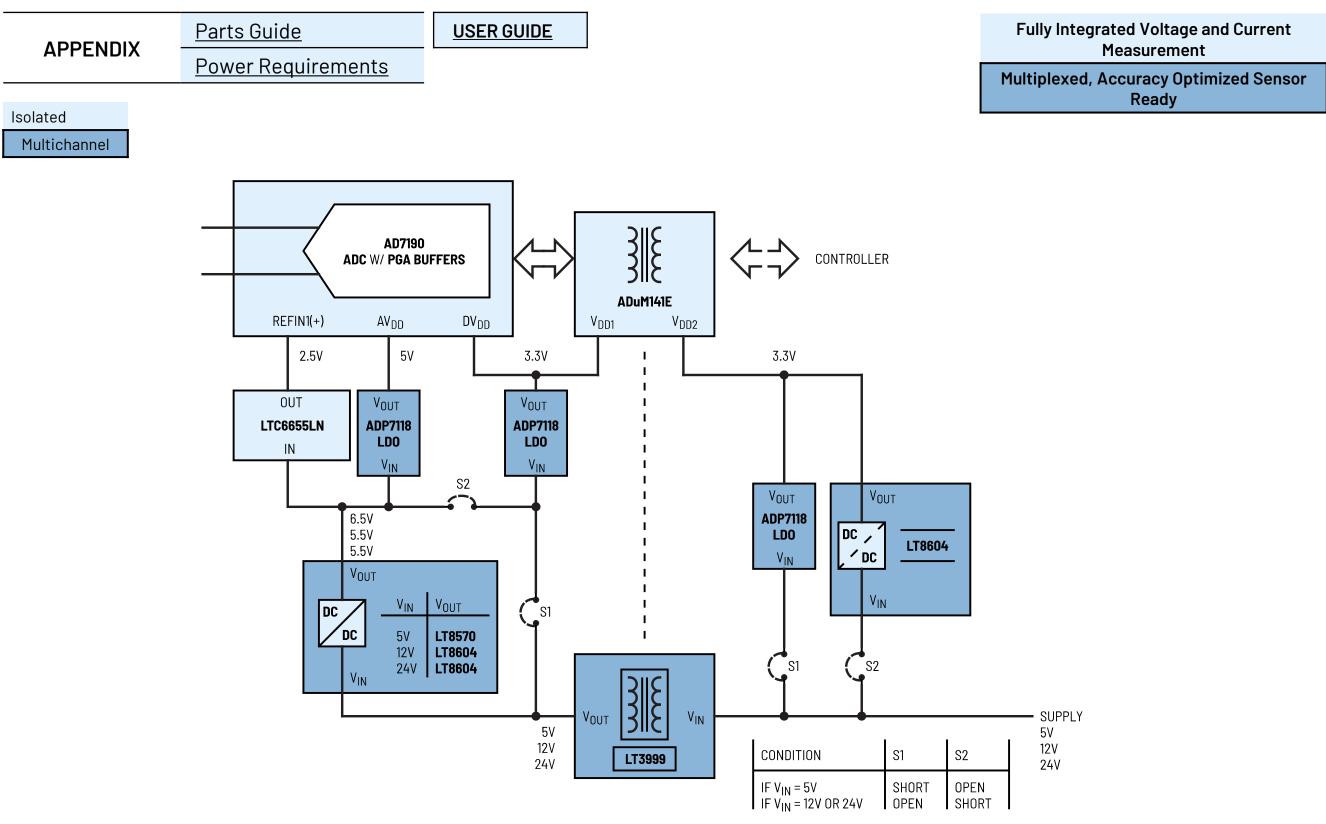


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Precision Narrow Bandwidth



Precision Narrow Bandwidth

Fully Integrated Voltage and Current Measurement

Multiplexed, Accuracy Optimized Sensor Ready

Isolated <u>Multichannel</u> **P**

PART #	DESCRIPTION
<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck
<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

Precision Narrow Bandwidth

Fully Integrated Voltage and Current Measurement

Multiplexed, Accuracy Optimized Sensor Ready

Isolated Multichannel

POWER REQUIREMENTS

	ADC		Reference	Isolation	
PARAMETER	<u>AD7190</u>		<u>LTC6655LN</u>	<u>ADuM141E</u>	
	AV _{DD}	DV _{DD}	IN	V _{DD1}	V _{DD2}
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, V _{IN} =1V)		40 (10kHz)	-	

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.