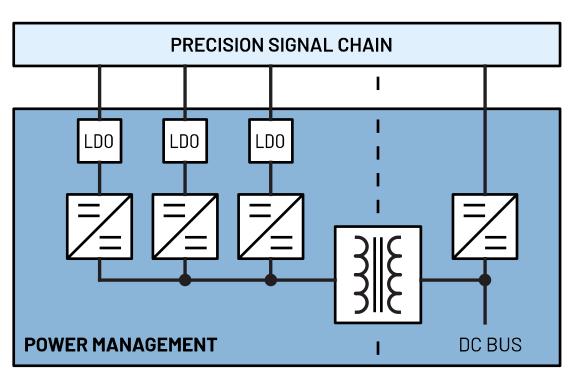


## POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

# ISOLATED GATE DRIVE & SENSE

Multichannel Monitoring for Power Conversion with Digital Isolation Density and Speed Optimized



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#### For the resources:

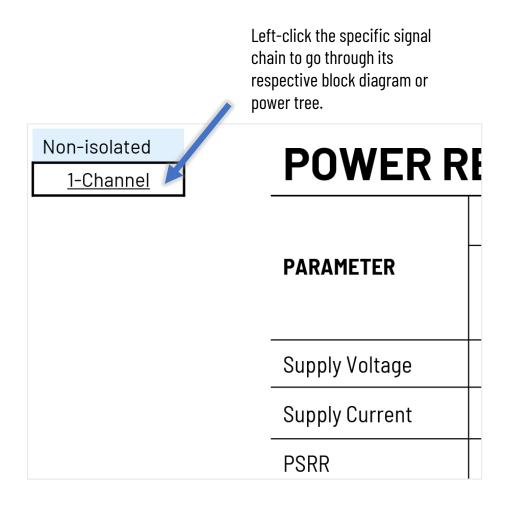
# APPENDIX Power Requirements

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				
	LT3471	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:





#### Isolated Gate Drive & Sense

**APPENDIX** 

Parts Guide

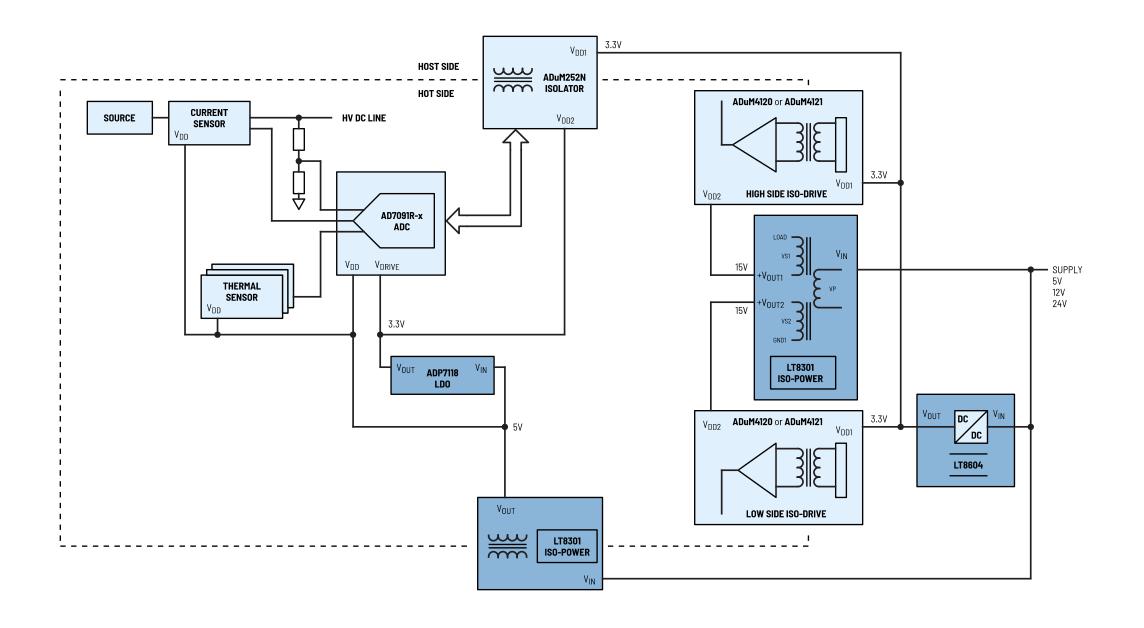
**USER GUIDE** 

Power Requirements

Multichannel Monitoring for Power Conversion with Digital Isolation

**Density and Speed Optimized** 

Isolated Multichannel



#### Isolated Gate Drive & Sense

Multichannel Monitoring for Power Conversion with Digital Isolation

**Density and Speed Optimized** 

Isolated	
<u>Multichannel</u>	

PART #	DESCRIPTION
LT8604	High Efficiency 42V/120mA Synchronous Buck
<u>LT8301</u>	42V <sub>IN</sub> Micropower No-Opto Isolated Flyback Converter with 65V/1.2A Switch
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator

#### Isolated Gate Drive & Sense

Multichannel Monitoring for Power Conversion with Digital Isolation

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<u>Multichannel</u>

### **POWER REQUIREMENTS**

	STAGES	Isolation		ADC		Isolated Gate Driver	
PARAMETER	Part #	<u>ADuM252N</u>	<u>[</u>	AD7091R-x		ADuM4120 ADuM4121	
	Pin	V <sub>DD1</sub>	V <sub>DD2</sub>	V <sub>DD</sub>	V <sub>DRIVE</sub>	V <sub>DD1</sub>	V <sub>DD2</sub>
Supply Voltage	V	3.3	3.3	5	3.3	3.3	15
Supply Current	mA	19.4	19.8	0.57	0.07	5	2.7
PSRR	dB		_	94 (10	OkHz)	-	-

**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.