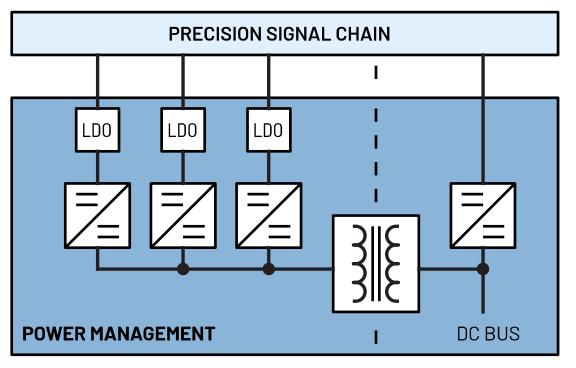


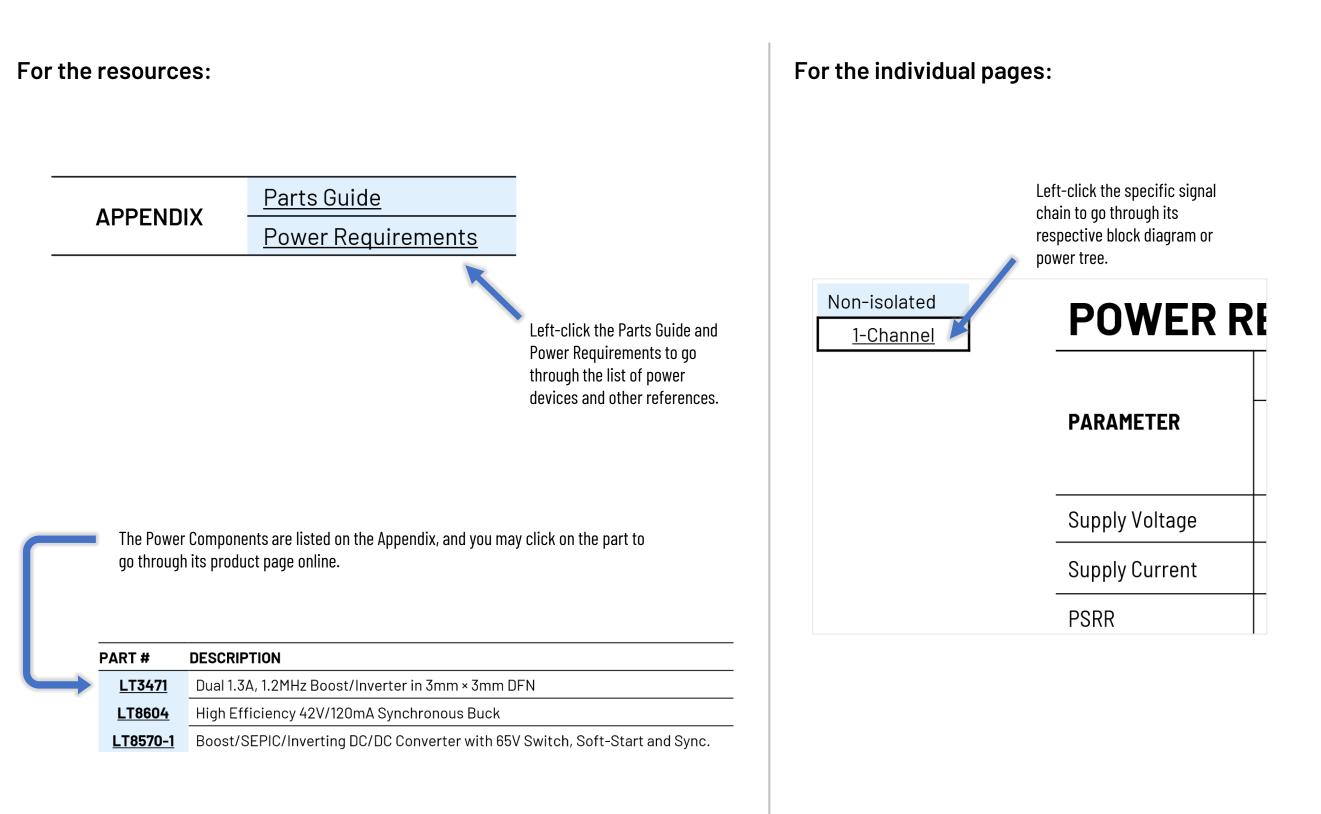
POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION CURRENT SENSING Current Measurement – Motor Control Inverter Shunt: Highest Measurement Precision

Rev. 0 | Aug. 2022

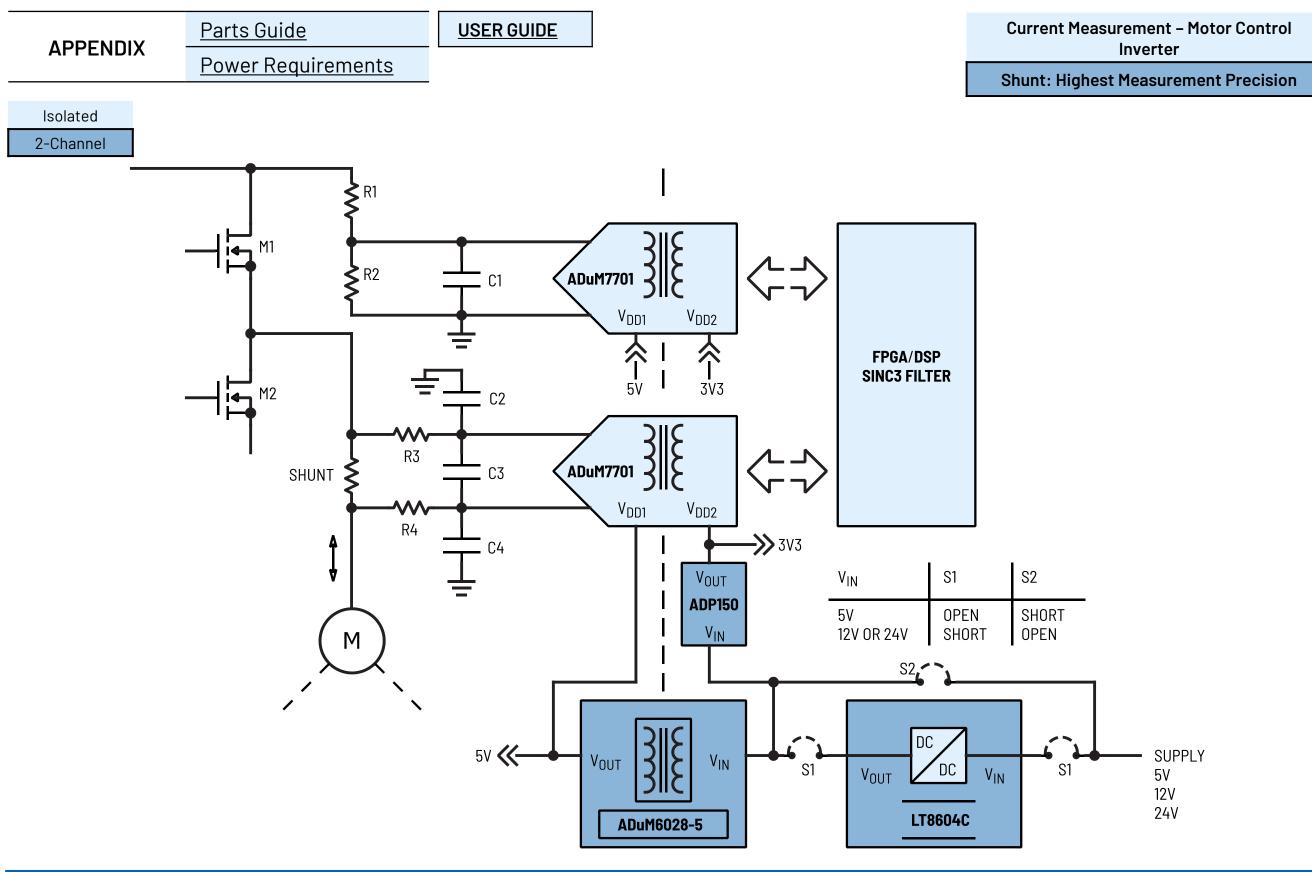


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Precision Current Sensing



Precision Current Sensing

Current Measurement – Motor Control Inverter

Shunt: Highest Measurement Precision

lsolated <u>2-Channel</u>

PART #	DESCRIPTION
<u>ADuM6028-5</u>	Low Emission, 5 kV Isolated DC-to-DC Converter
<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck
<u>ADP150</u>	Ultralow Noise, 150 mA CMOS Linear Regulator

Precision Current Sensing

Current Measurement – Motor Control Inverter

Shunt: Highest Measurement Precision

lsolated 2-Channel

POWER REQUIREMENTS

	STAGES	Filter	ADC	
PARAMETER	Part #	-	<u>ADuM7701</u>	
	Pin		V _{DD1}	V_{DD2}
Supply Voltage	V	-	5	3.3
Supply Current	mA	-	10	3
PSRR	dB	-	100 (700kHz)	

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: (1) power supply rejection ratio (PSRR) and (2) power dissipation.

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