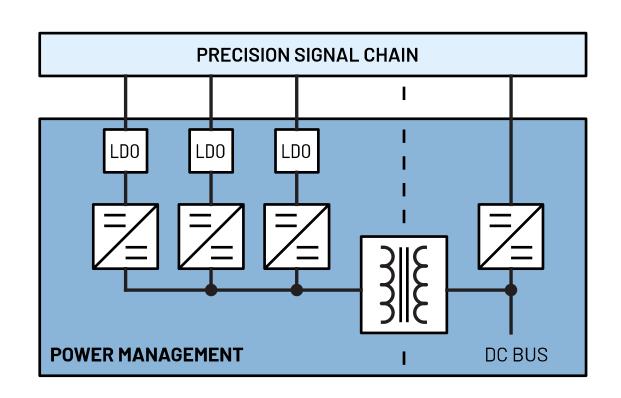


POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION MEDIUM BANDWIDTH Encoder Based Rotation Sensing Density Optimized

Rev. 0 | Aug. 2022



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This document is interactive. You can click on any underlined text to navigate through the document.

For the resources:

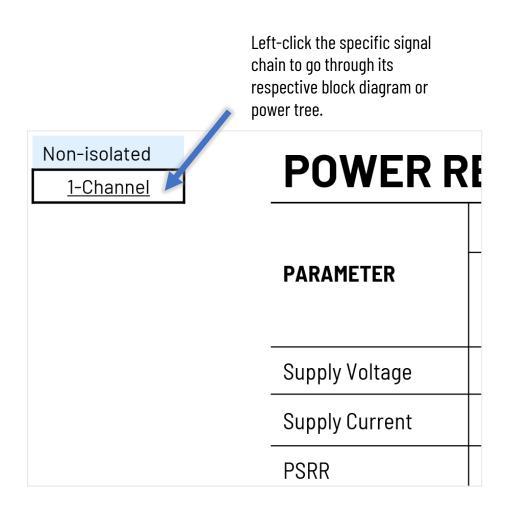
APPENDIX Power Requirements

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.

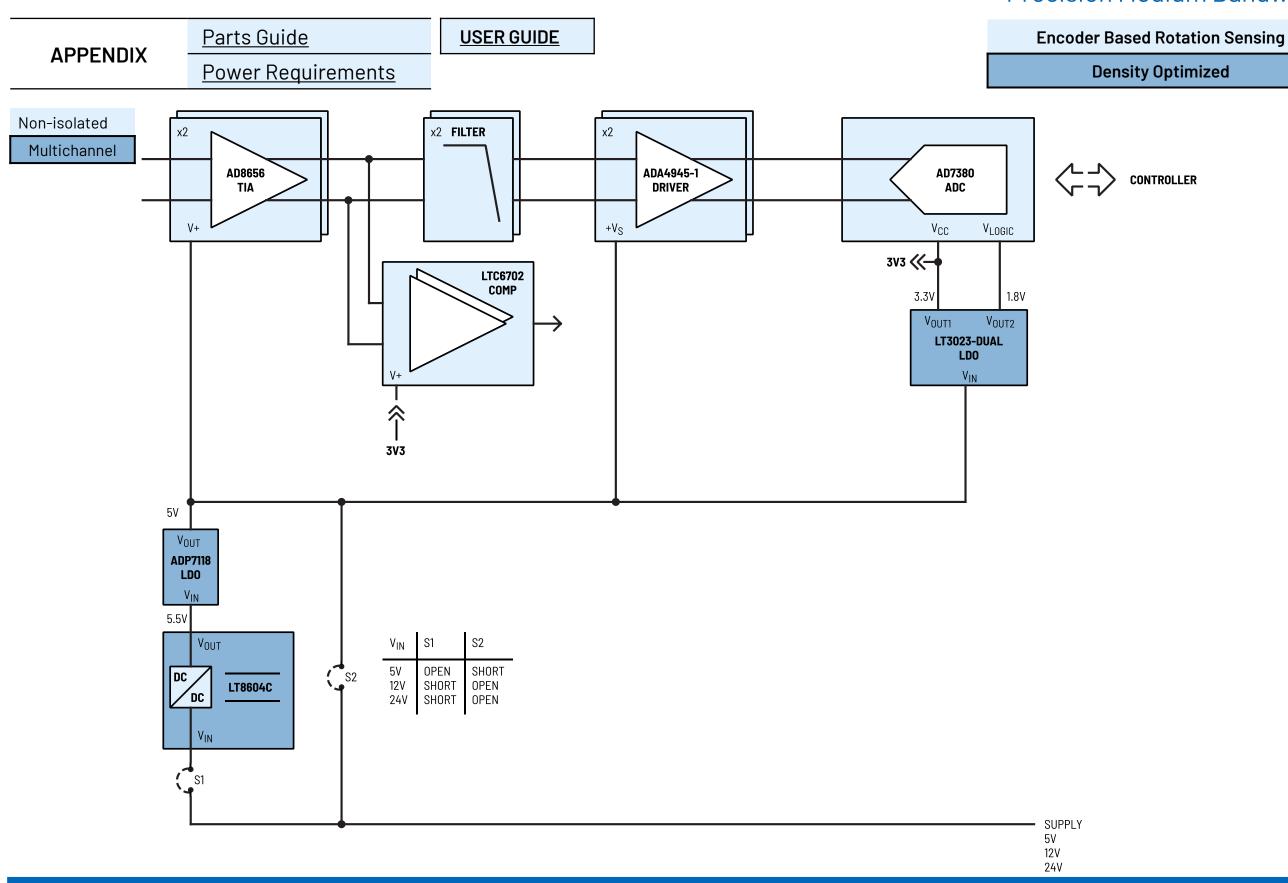
PART#		DESCRIPTION						
	<u>LT3471</u>	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN						
	LT8604	High Efficiency 42V/120mA Synchronous Buck						
	LT8570-1	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.						

For the individual pages:





Precision Medium Bandwidth



Precision Medium Bandwidth

Encoder Based Rotation Sensing

Density Optimized

Non-isolated	
<u>Multichannel</u>	

PART #	DESCRIPTION						
LT8604C	High Efficiency 42V/120mA Synchronous Buck						
<u>LT3023</u>	Dual 100mA, Low Dropout, Low Noise, Micropower Regulator						
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator						

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POWER REQUIREMENTS

	STAGES	TIA	Filter	ADC Driver		ADC Ref Buffer Ref			Comparator	
PARAMETER	Part #	AD8656	-	ADA4945-1		AD7380			LTC6702	
	Pin	V+	-	+V _S	-V _S	V _{CC}	V _{LOGIC}	-	V+	-
Supply Voltage	V	5	-	5	-	3.3	1.8	-	3.3	-
Supply Current	mA	5.3	-	4.2	-	26	3.7	-	0.08	-
PSRR	dB	32 (1MHz)	_	- 106 (75 (1MHz)		54	

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.