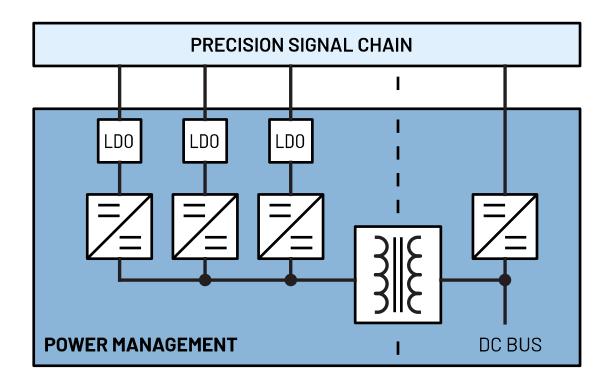


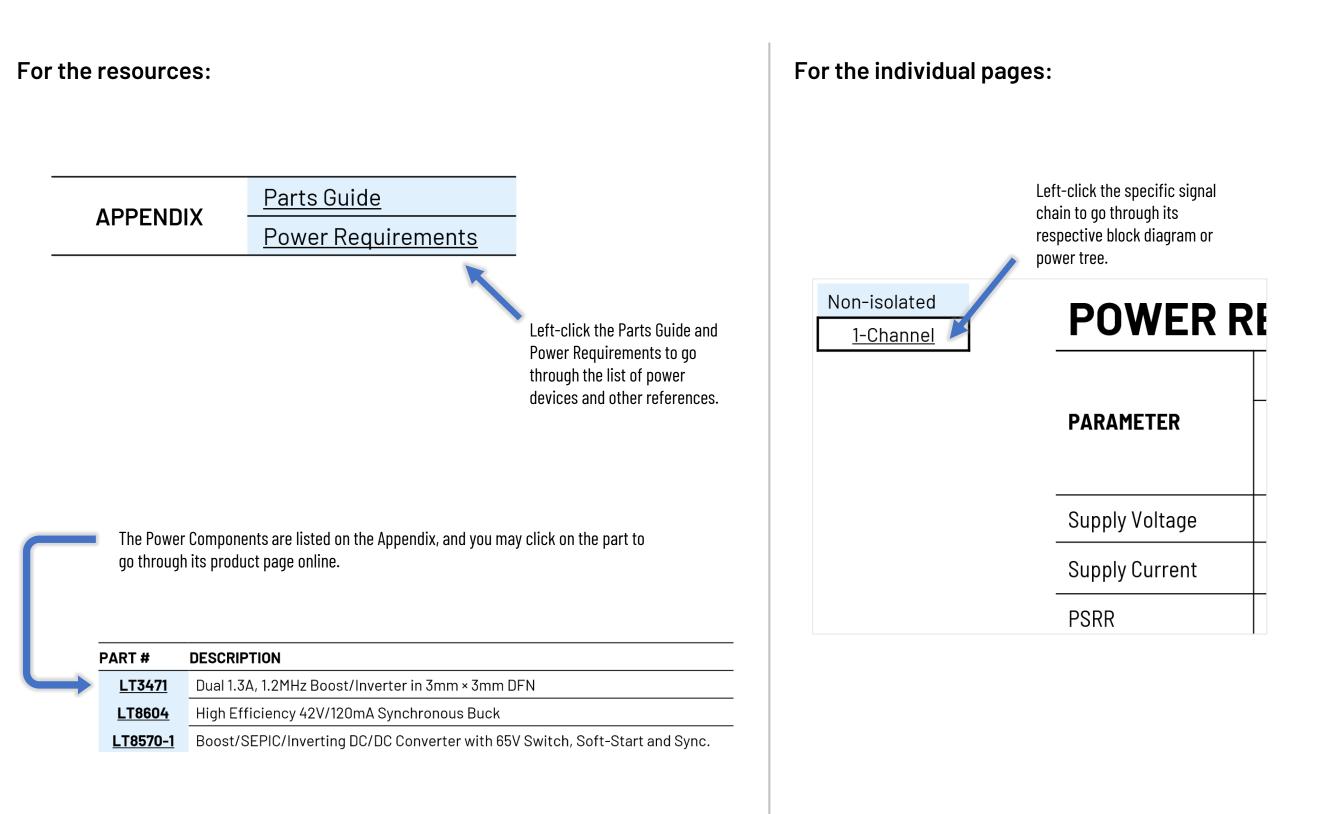
POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION MEDIUM BANDWIDTH Sonar Sensor Distributed

Rev. 0 | Aug. 2022



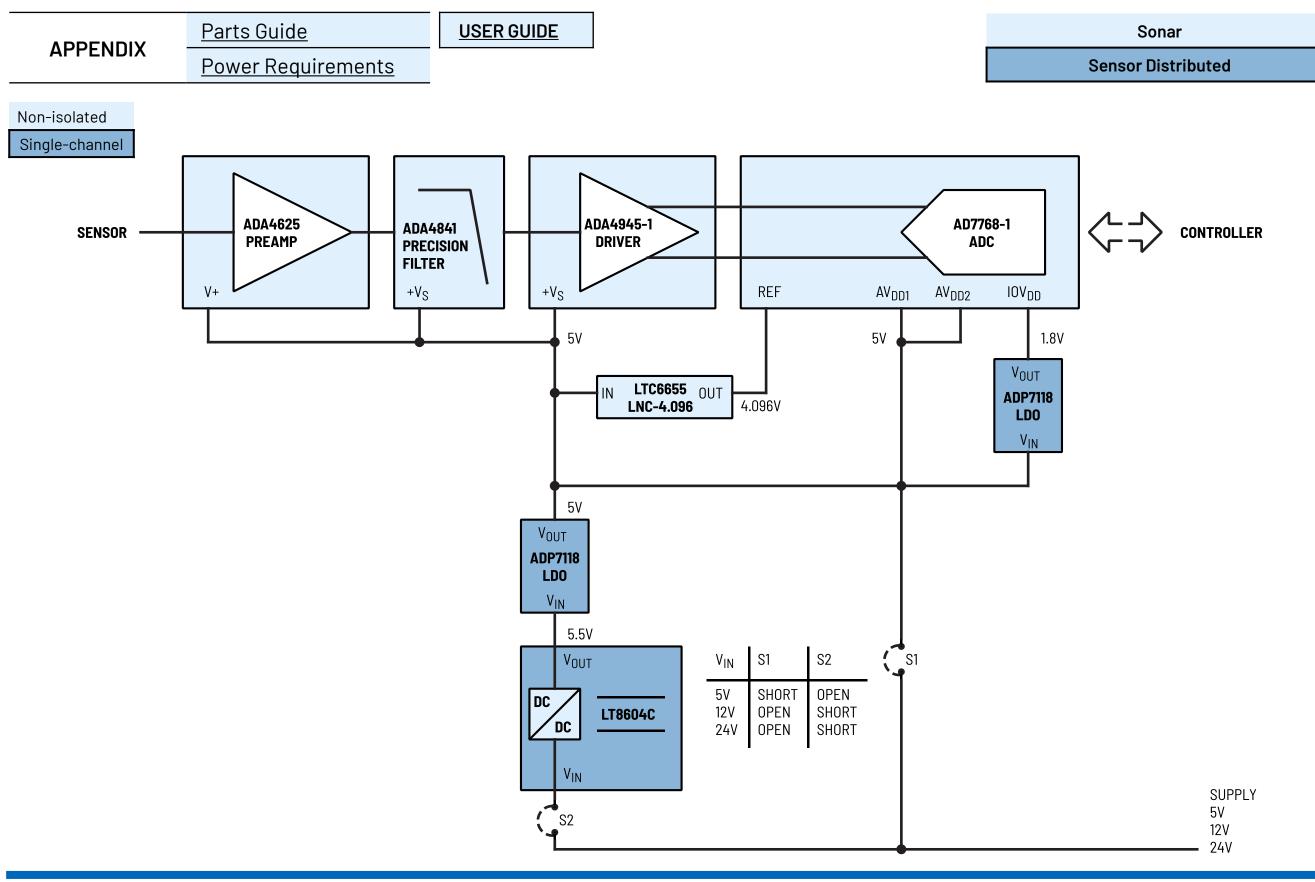
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ANALOG DEVICES

Precision Medium Bandwidth



Precision Medium Bandwidth

Sonar

Sensor Distributed

Non-isolated	
Single-channel	F#

ART #	DESCRIPTION
<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator

Precision Medium Bandwidth

Sonar

Sensor Distributed

Non-isolated
Single-channel

POWER REQUIREMENTS

	STAGES	Preamp	Precision Filter	ADC Driver	ADC			Reference
PARAMETER	Part #	<u>ADA4625</u>	<u>ADA4841</u>	ADA4945-1 AD7768-1				<u>LTC6655LNC-</u> <u>4.096</u>
	Pin	V+	+V _S	+V _S	AV _{DD1}	AV _{DD2}	IOV _{DD}	V _{IN}
Supply Voltage	V	5	5	5	5	5	1.8	5
Supply Current	mA	4.8 (per amp)	1.4 (per amp)	4.2	26	6	11.5	7.5
PSRR	dB	25 (1MHz)	48 (1MHz)	106 (1MHz)	117 (1MHz)	111 (1MHz)	119 (1MHz)	58 (100kHz)

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.