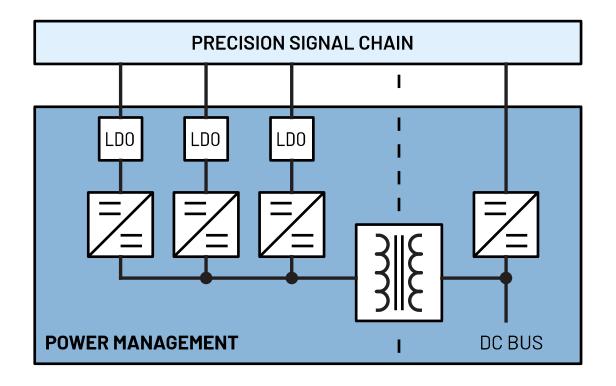


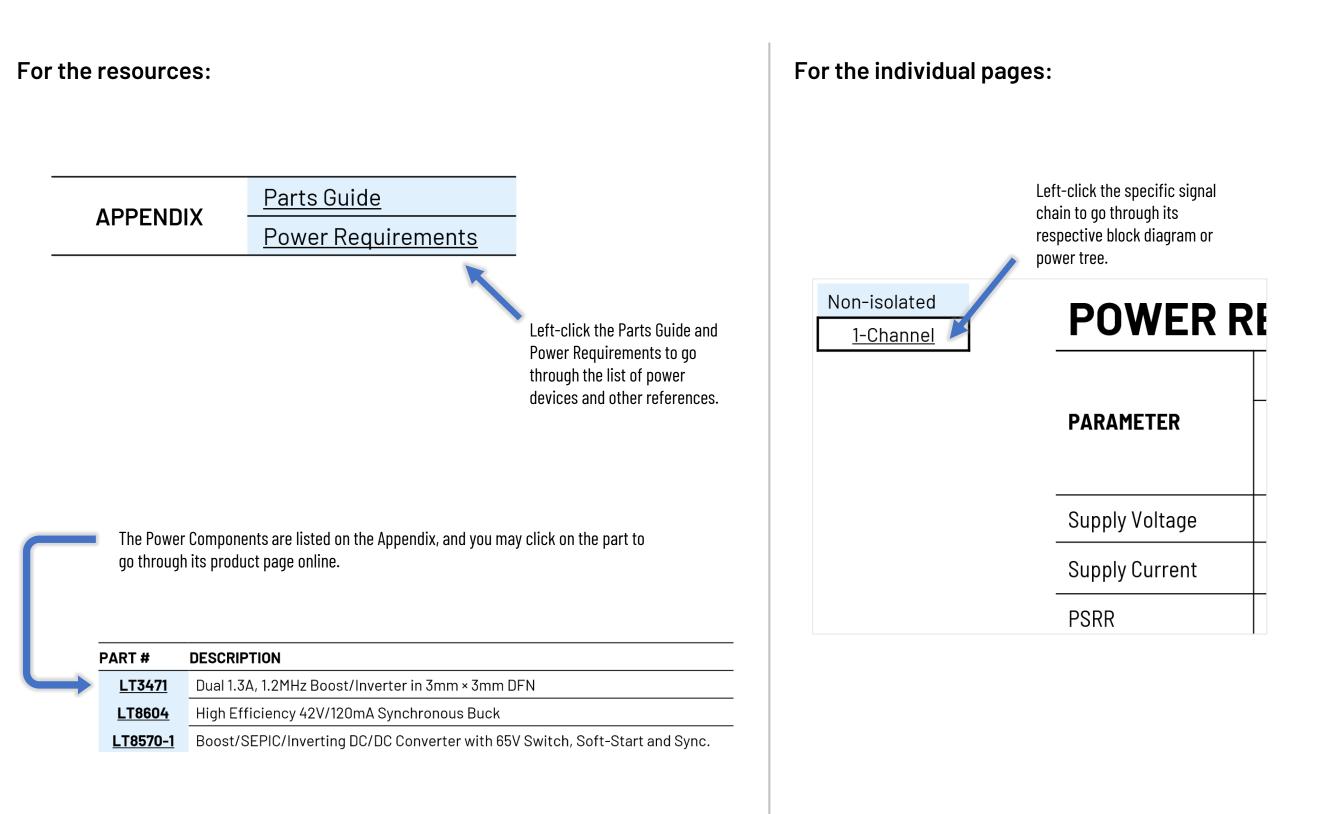
## **POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS**

## PRECISION MEDIUM BANDWIDTH Sonar High Dynamic Range

Rev. 0 | Aug. 2022

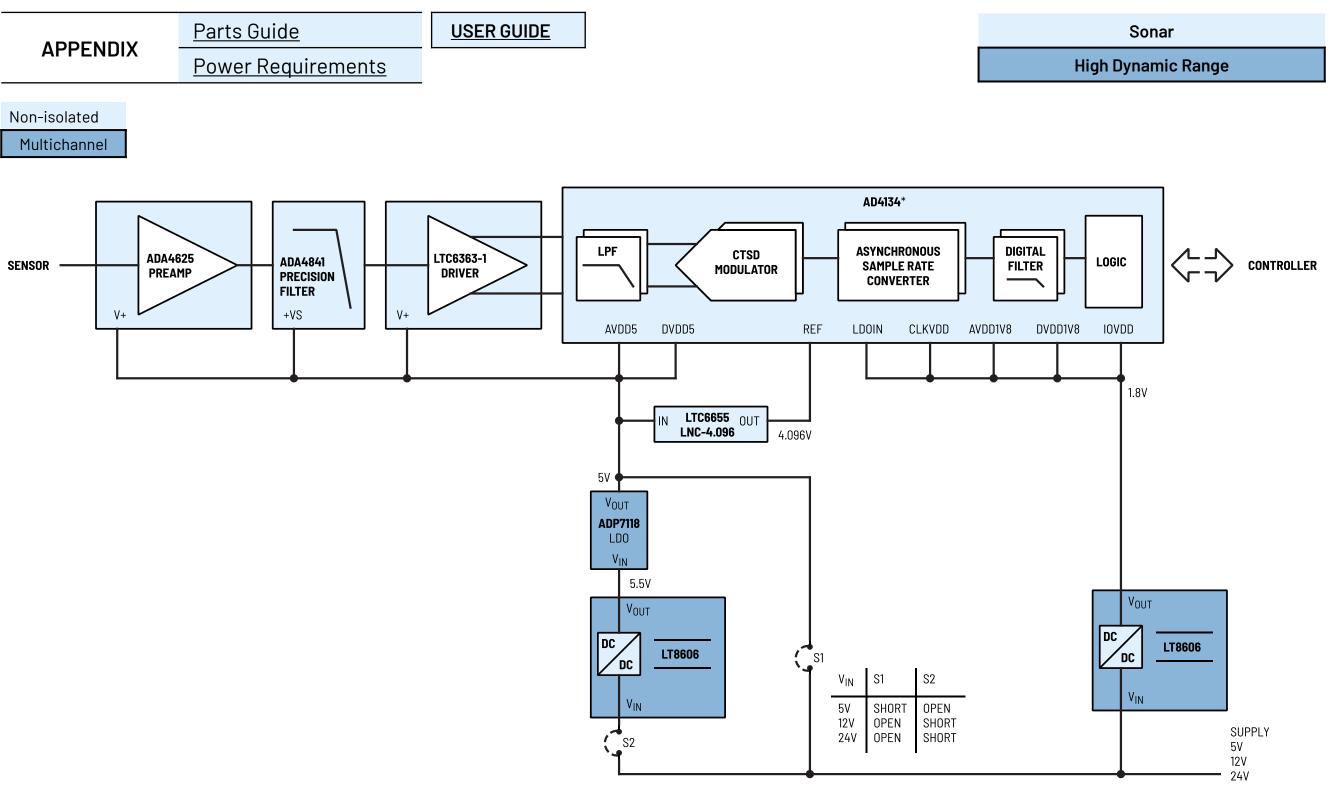


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Precision Medium Bandwidth



\*See AD4134 datasheet for details on power supply sequencing requirements.

Precision Medium Bandwidth

Sonar

High Dynamic Range

Non-isolated <u>Multichannel</u>	PART #	DESCRIPTION						
<u>Inditionaliner</u>	<u>LT8606</u>	42V, 350mA Synchronous Step-Down Regulator with 2.5µA Quiescent Current						
	<u>ADP7118</u>	20V, 200mA, Low Noise, CMOS LDO Linear Regulator						

## **Precision Medium Bandwidth**

Sonar

**High Dynamic Range** 

	STAGES	Preamp	Precision Filter	ADC Driver	ADC						Ref.
PARAMETER	Part #	<u>ADA4625</u>	<u>ADA4841</u>	<u>LTC6363-</u> <u>1</u>	<u>AD4134</u>						<u>LTC6655L</u> <u>NC-4.096</u>
	Pin	V+	+V <sub>S</sub>	V+	$AV_{DD5}$	$DV_{DD5}$	AV <sub>DD1V8</sub>	$DV_{DD1V8}$	IOV <sub>DD</sub>	CLKV <sub>DD</sub>	V <sub>IN</sub>
Supply Voltage	V	5	5	5	5	5	1.8	1.8	1.8	1.8	5
Supply Current	mA	4.8 (per amp)	1.4 (per amp)	2	56	45	81	106	4	4	7.5
PSRR	dB	25 (1MHz)	48 (1MHz)	55 (1MHz)	144 (1MHz)	143 (1MHz)	144 (1MHz)	143 (1MHz)	142 (1MHz)	142 (1MHz)	58 (100kHz)

## Non-isolated **POWER REQUIREMENTS** Multichannel

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.

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