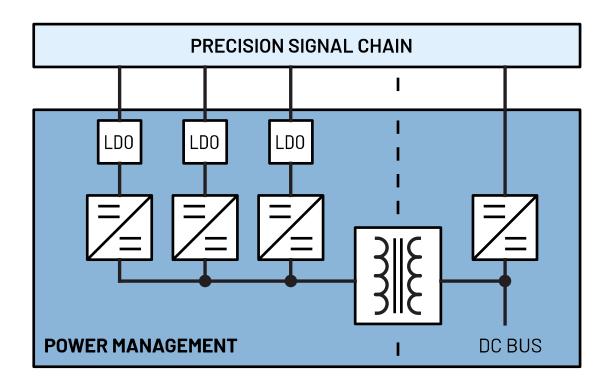


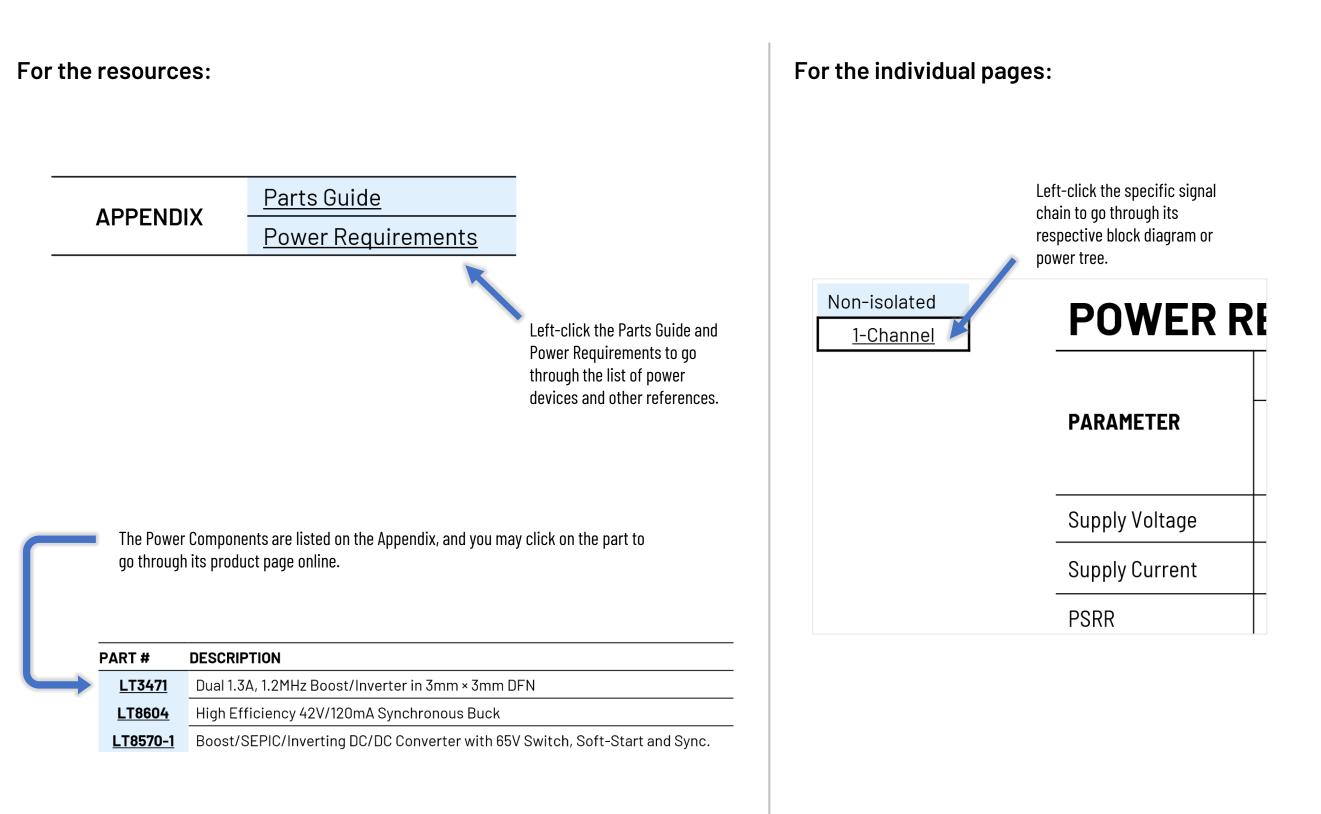
POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION NARROW BANDWIDTH Adaptable Voltage Drive Cost Optimized

Rev. 0 | Jan. 2022



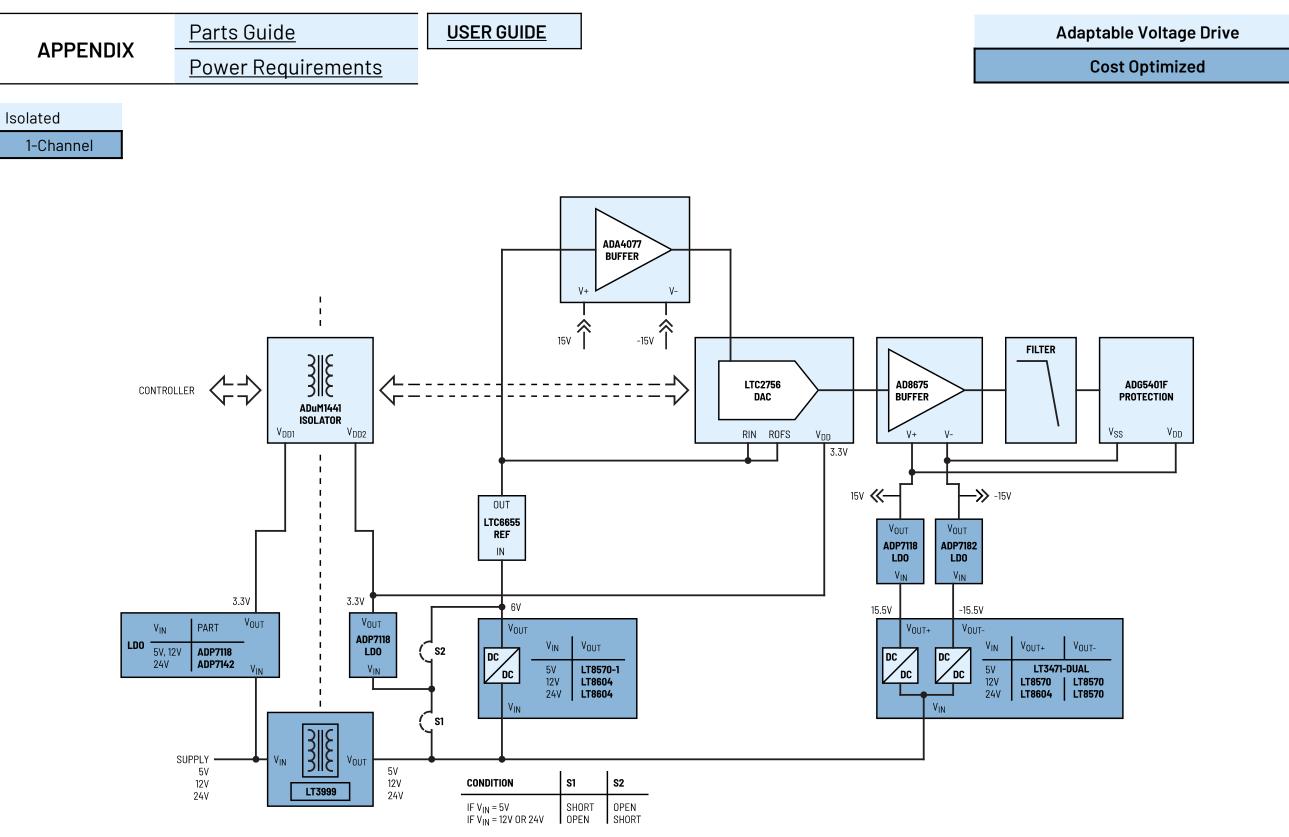
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Power Solutions for Precision Technology Signal Chains

Precision Narrow Bandwidth



Precision Narrow Bandwidth

Adaptable Voltage Drive

Cost Optimized

lsolated <u>1-Channel</u>	PART #	DESCRIPTION
	<u>LT3471</u>	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN
	<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck
	<u>LT8570</u>	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.
	<u>LT8570-1</u>	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.
	<u>LT3999</u>	Low Noise, 1A, 1MHz Push-Pull DC/DC Driver with Duty Cycle Control
	<u>ADP7118</u>	20V, 200mA, Low Noise, CMOS LDO Linear Regulator
	<u>ADP7142</u>	40V, 200 mA, Low Noise, CMOS LDO Linear Regulator
	<u>ADP7182</u>	–28V, –200mA, Low Noise, Linear Regulator

Precision Narrow Bandwidth

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Isolated	POWER REQUIREMENTS													
		STAGES	Ref.	Buffer		Isolation		DAC	Amp		Protection			
	PARAMETER	Part #	LTC6655	ADA4077		<u>ADuM1441</u>		LTC2756	<u>AD8675</u>		ADG5401F			
		Pin	IN	V+	V-	V _{DD1}	V _{DD2}	V _{DD}	V+	V-	V _{DD}	V _{SS}		
	Supply Voltage	V	5	15	-15	3.3	3.3	3.3	15	-15	15	-15		
	Supply Current	mA	1.8	0.65	-0.65	0.9	-0.75	10	3.8	-3.8	0.22	0.09		
	PSRR	dB	40 (10kHz)	12 (1MHz)	24 (1MHz)		-	-	48 (1MHz)	52 (1MHz)	82 (1MHz)			

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.