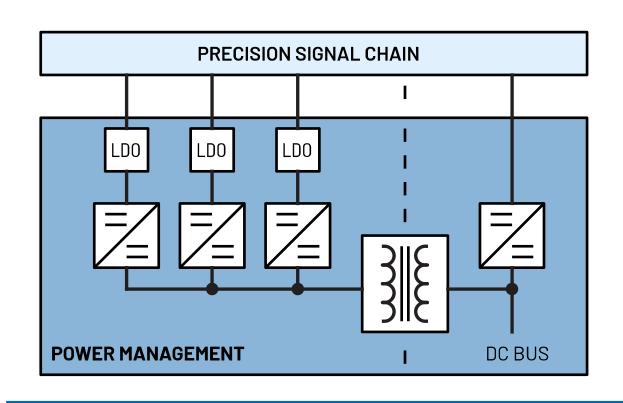


POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION NARROW BANDWIDTH Adaptable Voltage Drive Density Optimized

Rev. 0 | Jan. 2022



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For the resources:

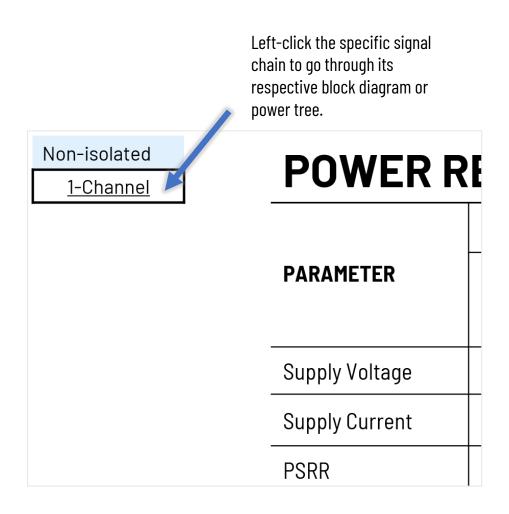
APPENDIX Power Requirements

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								
١	<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 Narrow Bandwidth

APPENDIX

Parts Guide

Power Requirements

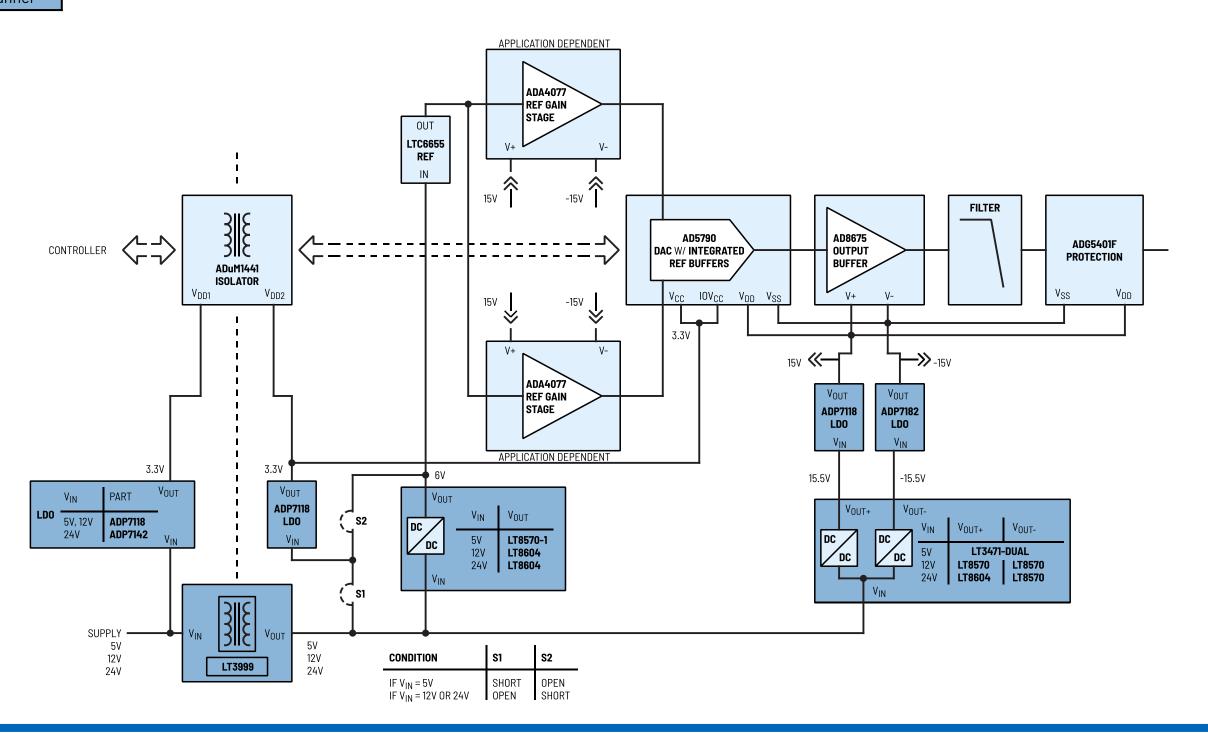
USER GUIDE

Adaptable Voltage Drive

Density Optimized

Isolated

1-Channel



Precision Narrow Bandwidth

Adaptable Voltage Drive

Density Optimized

Isolated <u>1-Channel</u>

PART #	DESCRIPTION								
LT3471	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.								
LT8570-1	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								
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator								
ADP7142	40V, 200 mA, Low Noise, CMOS LDO Linear Regulator								
ADP7182	–28V, –200mA, Low Noise, Linear Regulator								

Precision Narrow Bandwidth

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POWER REQUIREMENTS

	STAGES	Ref.	Buffer		Isolation		DAC				Amp		Protection	
PARAMETER	Part #	LTC6655	ADA4077		<u>ADuM1441</u>		AD5790				AD8675		<u>ADG5401F</u>	
	Pin	IN	V+	V-	V _{DD1}	V _{DD2}	V _{CC}	IOV _{CC}	V _{DD}	V _{SS}	V+	V-	V _{DD}	V _{SS}
Supply Voltage	V	5	15	-15	3.3	3.3	3.3	3.3	15	-15	15	-15	15	-15
Supply Current	mA	1.8	0.65	-0.65	0.9	-0.75	0.9	0.14	14	-14	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.