

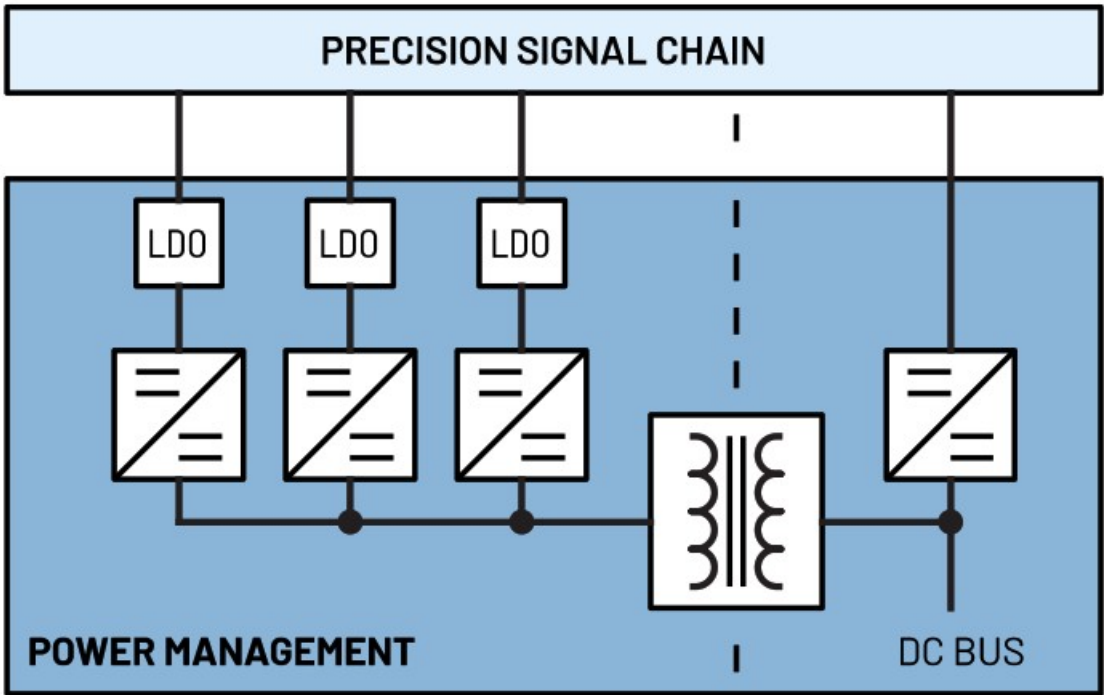
ANALOG DEVICE Precision Narrow Bandwidth Signal Chain Platforms User Guide

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AHEAD OF WHAT'S POSSIBLE™

POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS
PRECISION NARROW BANDWIDTH
Fully Integrated Voltage and Current Measurement
Density and Latency Optimized Sensor Ready
Rev. 0 | Jan. 2022



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APPENDIX

For the resources:

APPENDIX	Parts Guide
	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
LT3471	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:

PART #	DESCRIPTION
LT3471	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN
LT8604	High Efficiency 42V/120mA Synchronous Buck
LT8570	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.
LT3999	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

POWER REQUIREMENTS

PARAMETER	STAGES	Ref.	Buffer		Isolation		DAC	Amp		Protection	
	Part	LTC6655	ADA4077		ADuM1441		LTC2756	A08675		ADG5401F	
	Pin	IN	V+	V-	VDO1	VOD2	VDD	V+	V-	VDD	Vss
Supply Voltage	V	5	15	-15	3.	3.	3.	15	-15	15	-15
Supply Current	mA	2.	0.65	-1.	0.9	-1.	10	4.	-4.	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.

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Documents / Resources

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