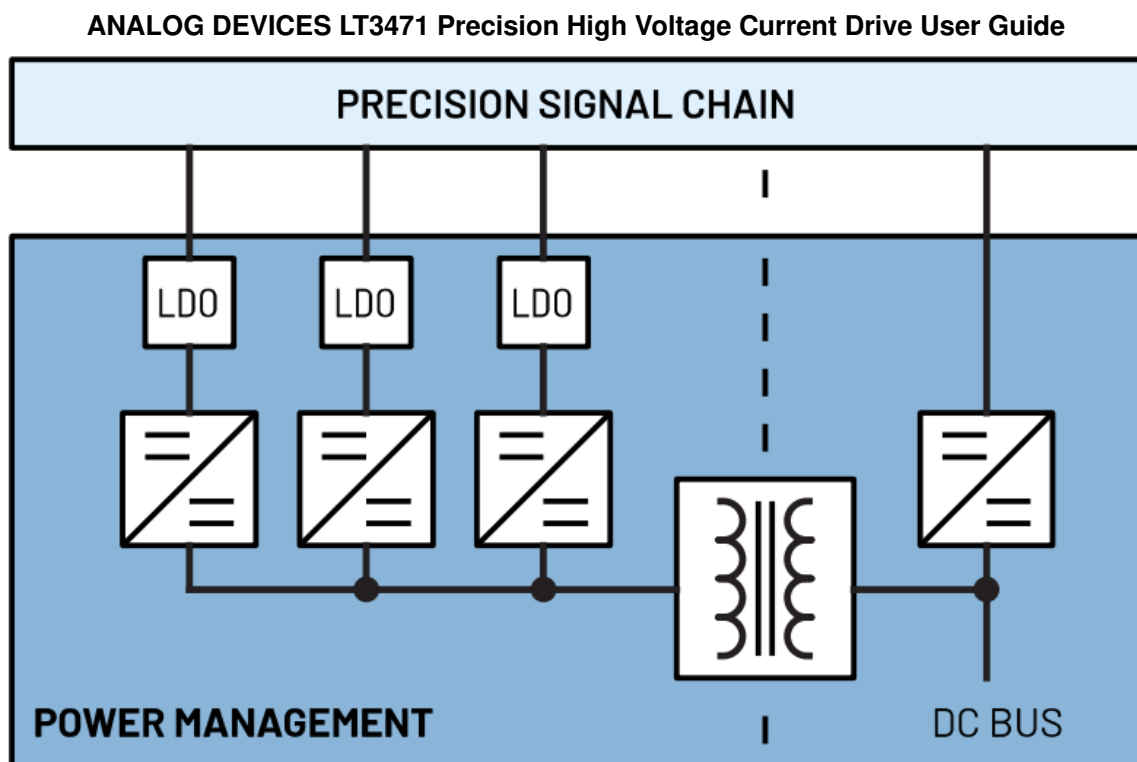


ANALOG DEVICES LT3471 Precision High Voltage Current Drive User Guide

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USER GUIDE

This document is interactive. You can click on any underlined text to navigate through the document.

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:

Left-click the specific signal chain to go through its respective block diagram or power tree.

Non-isolated

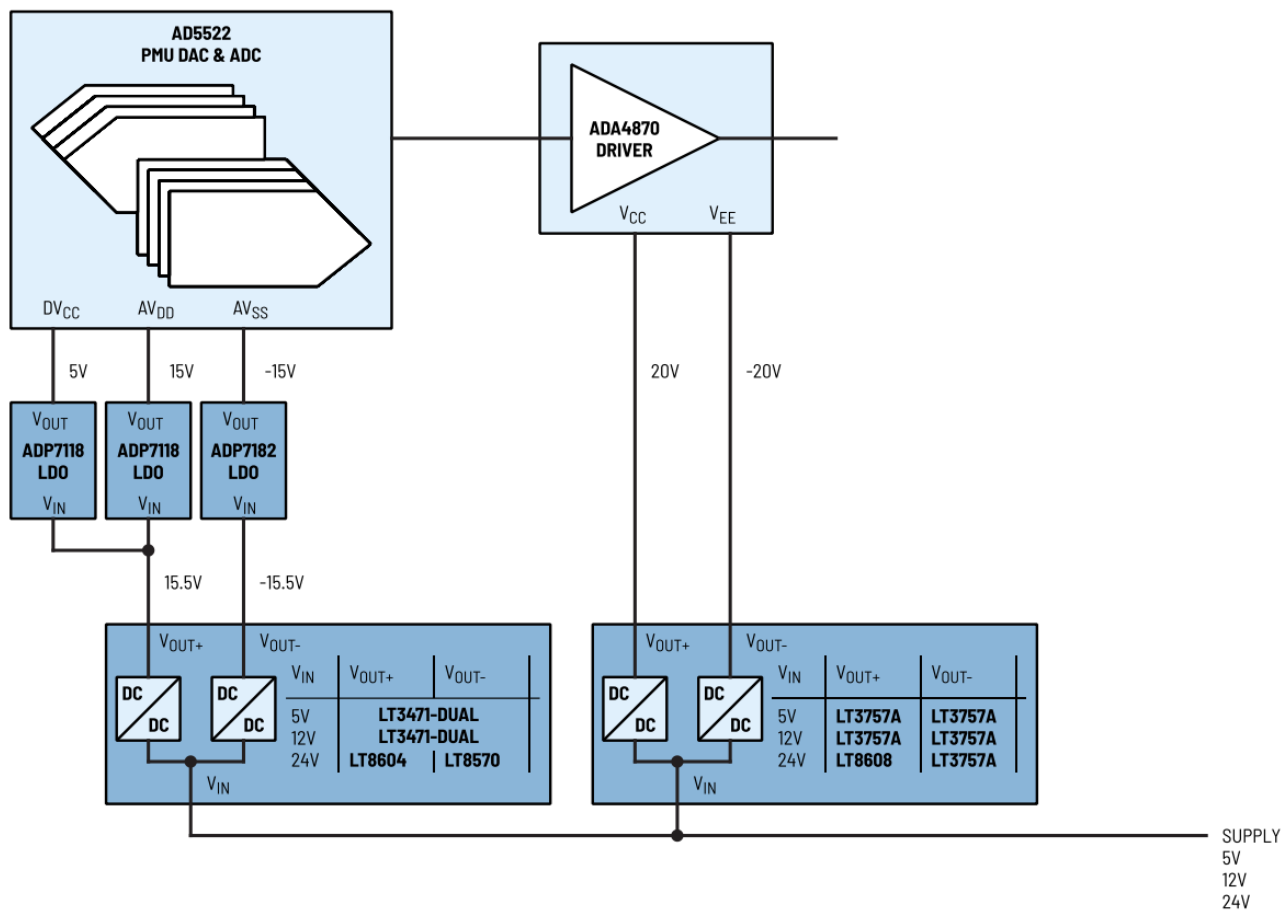
1-Channel

POWER RE

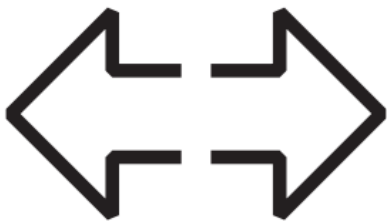
PARAMETER
Supply Voltage
Supply Current
PSRR

Non-isolated; Multichannel

With ADA4870 Driver
With LT1210 Driver

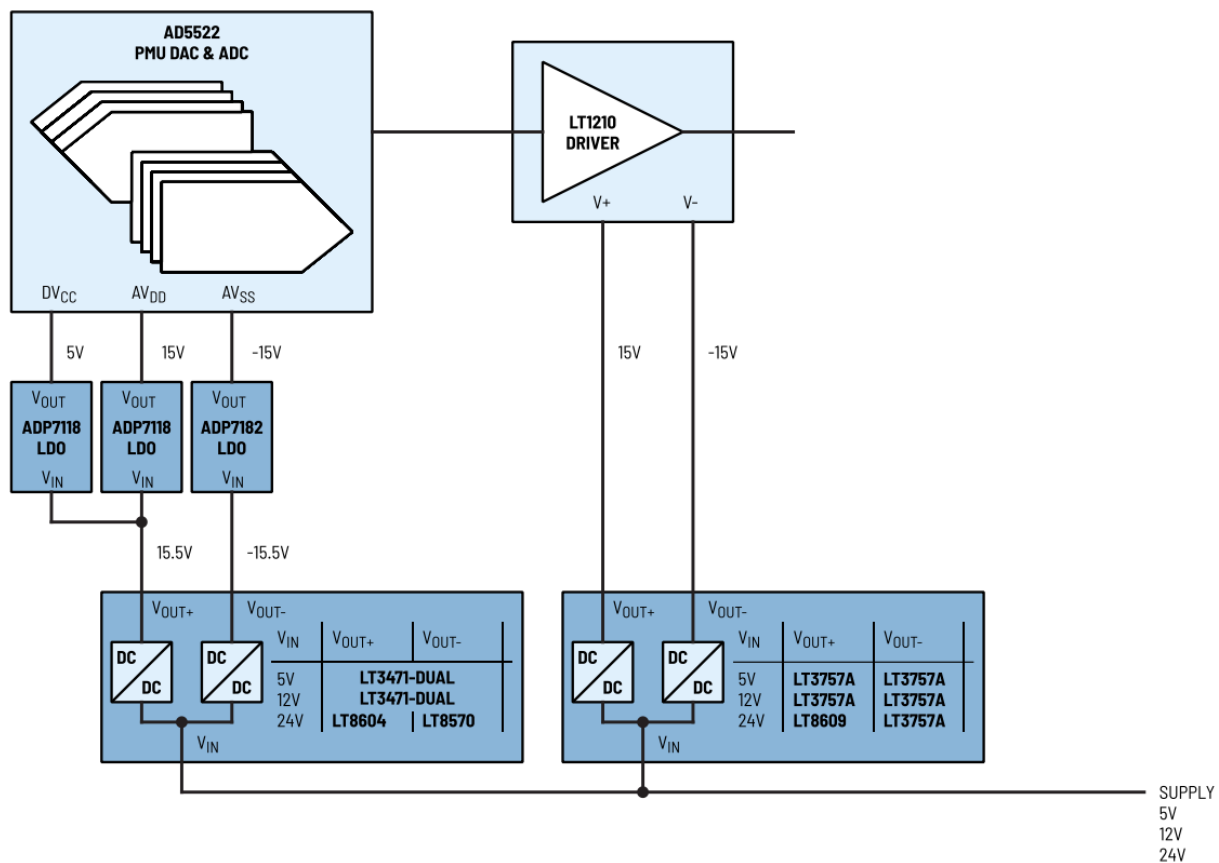


Controller

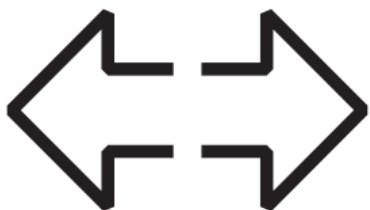


Non-isolated; Multichannel

With ADA4870 Driver
With LT1210 Driver



Controller



PART #	DESCRIPTION
LT3471	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm ×3mm DFN
LT3757A	Boost, Flyback, SEPIC and Inverting Controller
LT8570	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.
LT8604	High Efficiency 42V/120mA Synchronous Buck
LT8608	42V, 1.5A Synchronous Step-Down Regulator with 2.5μA Quiescent Current
LT8609	42V, 3A Synchronous Step-Down Regulator with 2.5μA Quiescent Current
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator
ADP7182	–28V, –200mA, Low Noise, Linear Regulator

POWER REQUIREMENTS

PARAMETER	STAGES	PMU DAC & ADC			Driver		
	Part #	AD5522			[1] [2]	ADA4870 LT1210	
	Pin	AV _{DD}	AV _{SS}	DV _{CC}	V _{CC} /V ₊		V _{EE} /V ₋
Supply Voltage	V	15	-15	5	[1] [2]	20 15	-20 -15
Supply Current	mA	36	-36	1.5	[1] [2]	33 65	-33 -65
PSRR	dB	45 (100kHz)	50 (100kHz)	80 (100kHz)	[1] [2]	48 (1MHz) 31 (1MHz)	60 (1MHz) 29 (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

	<p>ANALOG DEVICES LT3471 Precision High Voltage Current Drive [pdf] User Guide LT3471 Precision High Voltage Current Drive, LT3471, Precision High Voltage Current Drive, High Voltage Current Drive, Voltage Current Drive, Current Drive, Drive</p>
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References

- [Mixed-signal and digital signal processing ICs | Analog Devices](#)
- [ADP7118 Datasheet and Product Info | Analog Devices](#)
- [ADP7182 Datasheet and Product Info | Analog Devices](#)
- [AD5522 Datasheet and Product Info | Analog Devices](#)
- [ADA4870 Datasheet and Product Info | Analog Devices](#)
- [LT1210 Datasheet and Product Info | Analog Devices](#)
- [LT3471 Datasheet and Product Info | Analog Devices](#)
- [LT3757 LT3757A Datasheet and Product Info | Analog Devices](#)
- [LT8570 Datasheet and Product Info | Analog Devices](#)
- [LT8604/LT8604C Datasheet and Product Info | Analog Devices](#)
- [LT8608/LT8608B Datasheet and Product Info | Analog Devices](#)
- [LT8609 LT8609A LT8609B Datasheet and Product Info | Analog Devices](#)