

ANALOG DEVICES LT3471 Precision High Voltage High Common-Mode Current Measurement Performance-Size Optimized Instructions

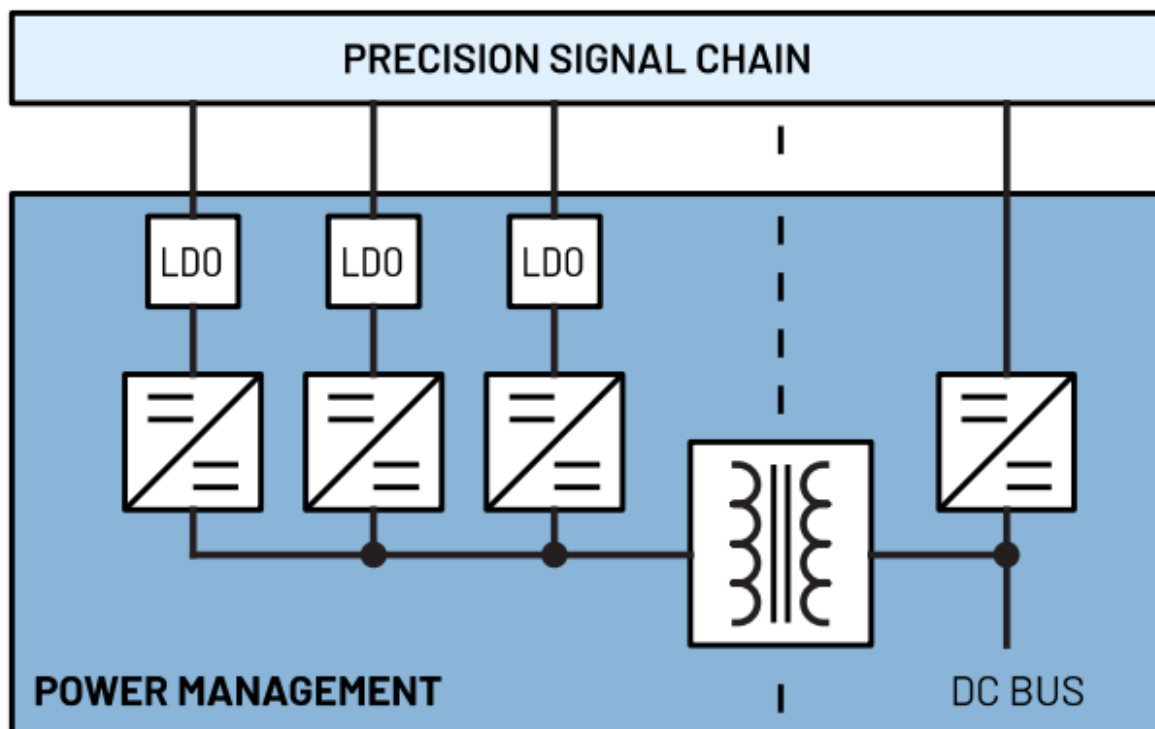
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ANALOG DEVICES Precision High Voltage Density Optimized Voltage Drive



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.

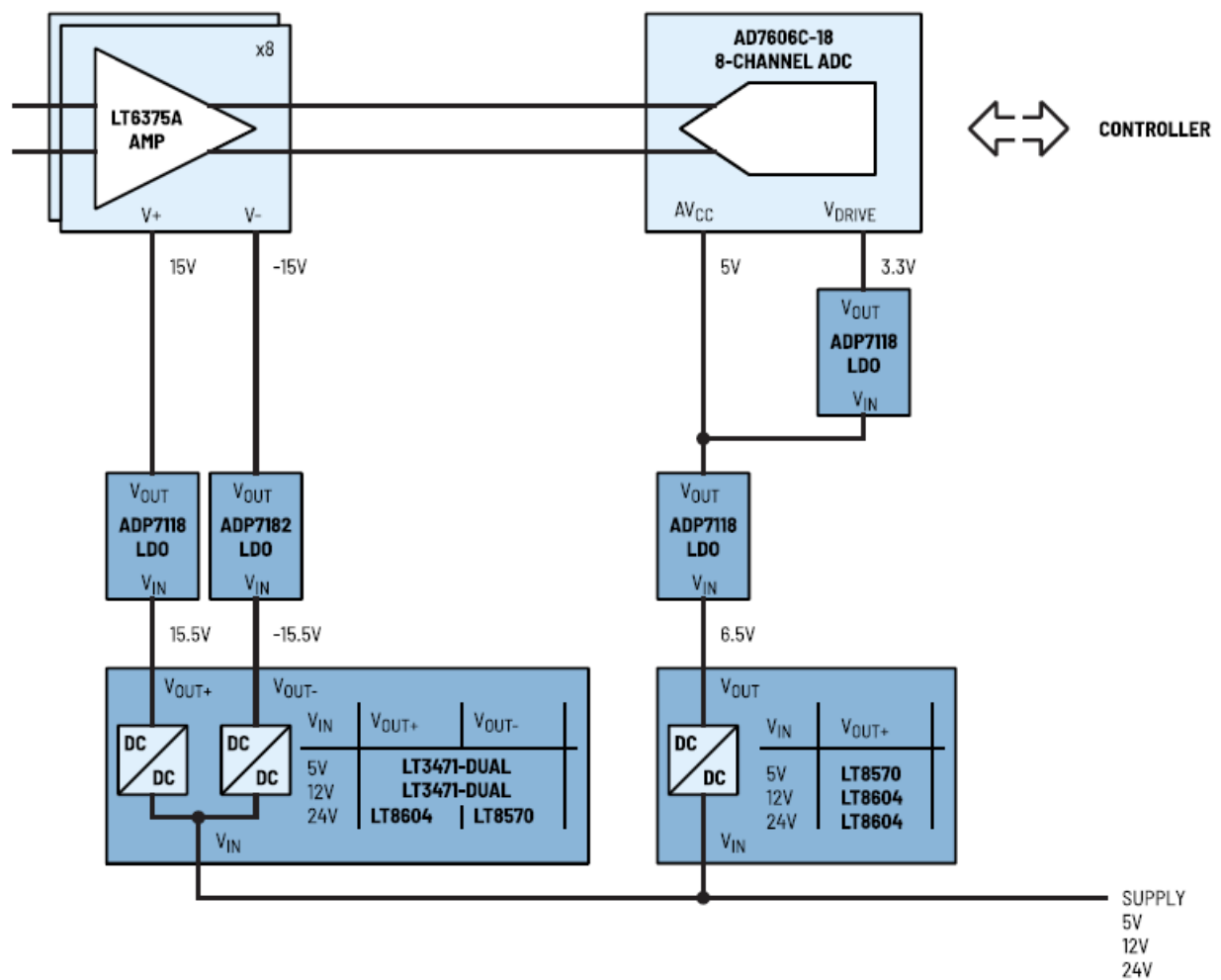
Non-isolated

1-Channel

POWER RE

PARAMETER
Supply Voltage
Supply Current
PSRR

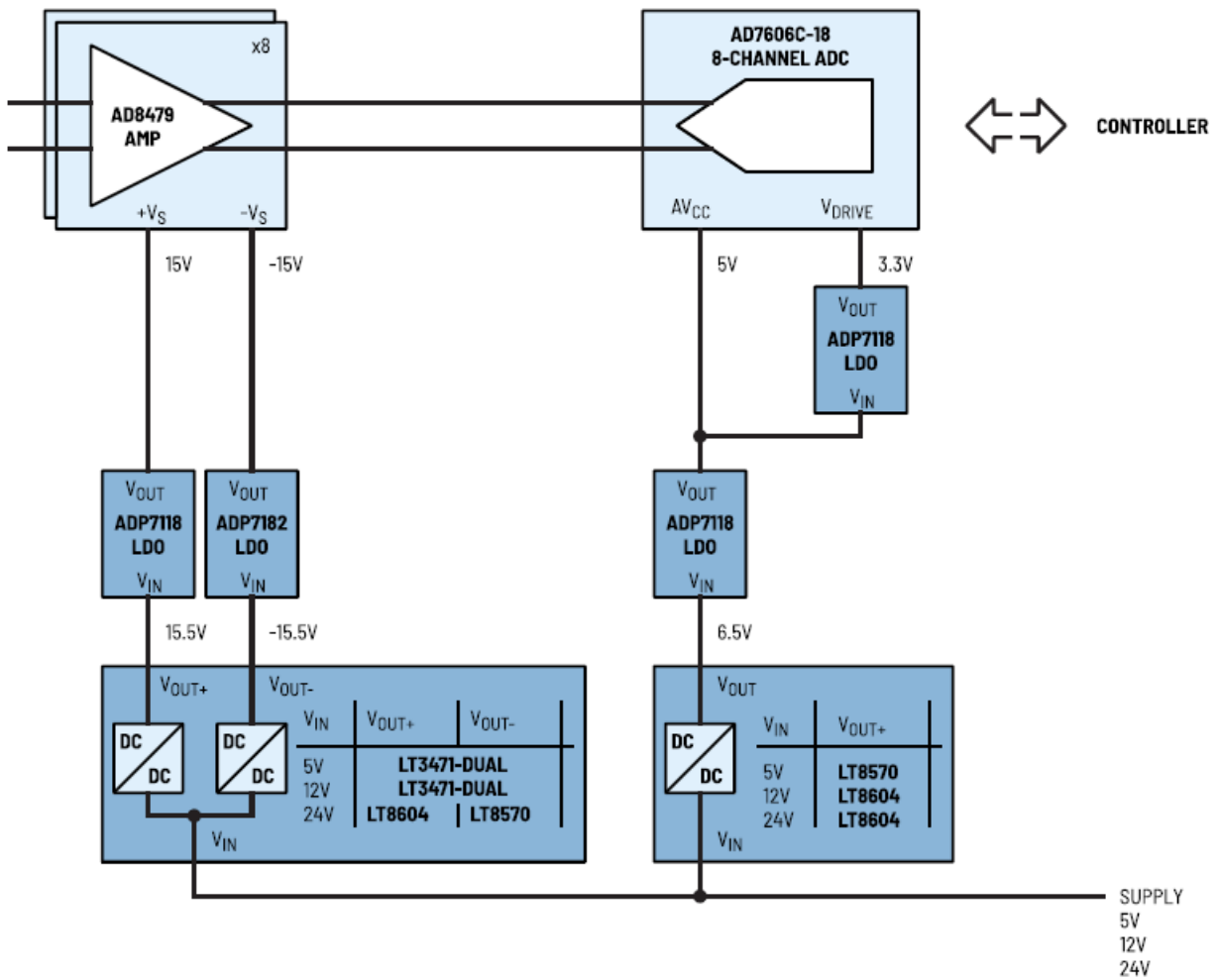
Non-isolated; Multichannel
With LT6375A Amplifier
With AD8479 Amplifier



Non-isolated; Multichannel

With LT6375A Amplifier

With AD8479 Amplifier



Non-isolated; Multichannel

With LT6375A Amplifier

With AD8479 Amplifier

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

Non-isolated; Multichannel
With LT6375A Amplifier
With AD8479 Amplifier

PARAMETER	STAGES	ADC		Amplifier		
	Part #	AD7606C-18		[1] [2]	LT6375A AD8479	
	Pin	AV_{CC}	VDRIVE	$V_+ / +V_S$		$V_- / -V_S$
Supply Voltage	V	5	3.3	[1] [2]	15 15	-15 -15
Supply Current	mA	50	1.9	[1] [2]	0.6 0.85	-0.6 -0.85
PSRR	dB	60	—	[1] [2]	30 (100kHz) 33 (100kHz)	15 (100kHz) 13 (100kHz)

POWER REQUIREMENTS

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 High Common-Mode Current Measurement Performance-Size Optimized [pdf] Instructions</p> <p>LT3471 Precision High Voltage High Common-Mode Current Measurement Performance-Size Optimized, LT3471, Precision High Voltage High Common-Mode Current Measurement Performance-Size Optimized</p>
	<p>ANALOG DEVICES LT3471 Precision High Voltage High Common-Mode Current Measurement Performance-Size Optimized [pdf] Instructions</p> <p>LT3471 Precision High Voltage High Common-Mode Current Measurement Performance-Size Optimized, LT3471, Precision High Voltage High Common-Mode Current Measurement Performance-Size Optimized</p>

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](#)
- [AD7606C-18 Datasheet and Product Info | Analog Devices](#)
- [AD8479 Datasheet and Product Info | Analog Devices](#)
- [ADHV4702-1 Datasheet and Product Info | Analog Devices](#)
- [LT3471 Datasheet and Product Info | Analog Devices](#)
- [LT6375 Datasheet and Product Info | Analog Devices](#)
- [LT8304 LT8304-1 Datasheet and Product Info | Analog Devices](#)
- [LT8570 Datasheet and Product Info | Analog Devices](#)
- [LT8580 Datasheet and Product Info | Analog Devices](#)
- [LT8604/LT8604C Datasheet and Product Info | Analog Devices](#)
- [LT8606LT8606B Datasheet and Product Info | Analog Devices](#)