

# ANALOG DEVICES Precision High Voltage Density Optimized Voltage Drive User Guide

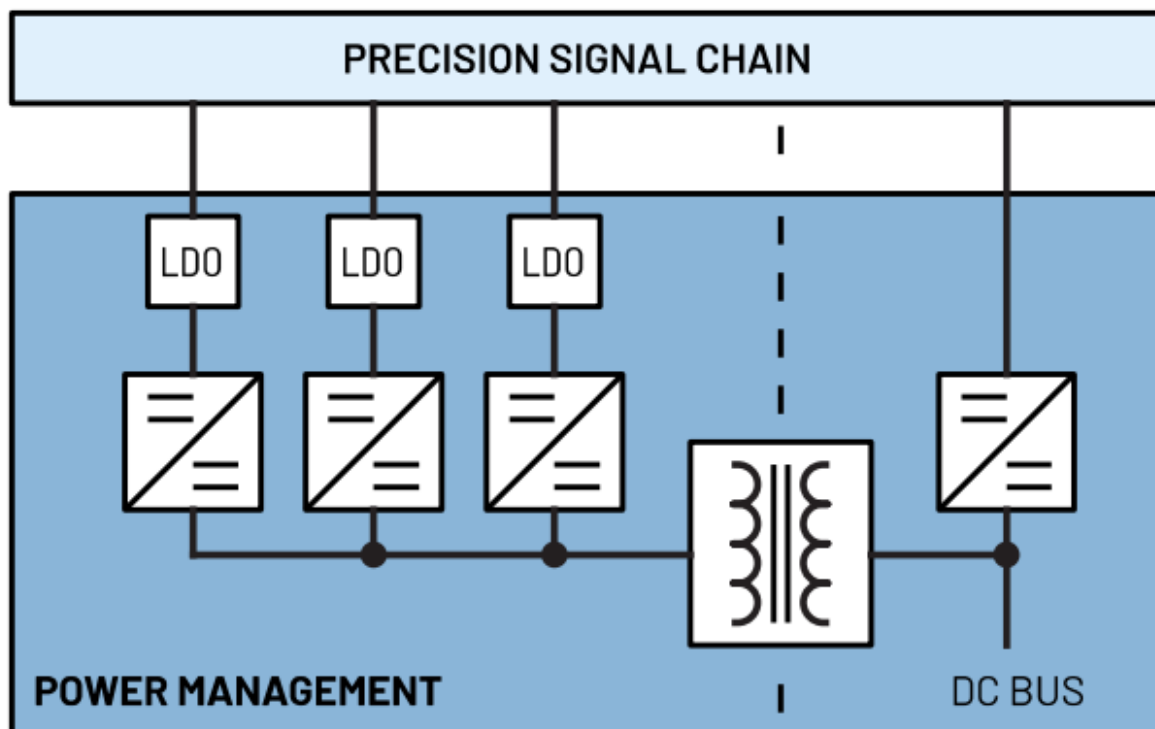
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**ANALOG DEVICES Precision High Voltage Density Optimized Voltage Drive**



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

For the resources

APPENDIX	<a href="#">Parts Guide</a>
	<a href="#">Power Requirements</a>

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
<a href="#">LT3471</a>	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN
<a href="#">LT8604</a>	High Efficiency 42V/120mA Synchronous Buck
<a href="#">LT8570-1</a>	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

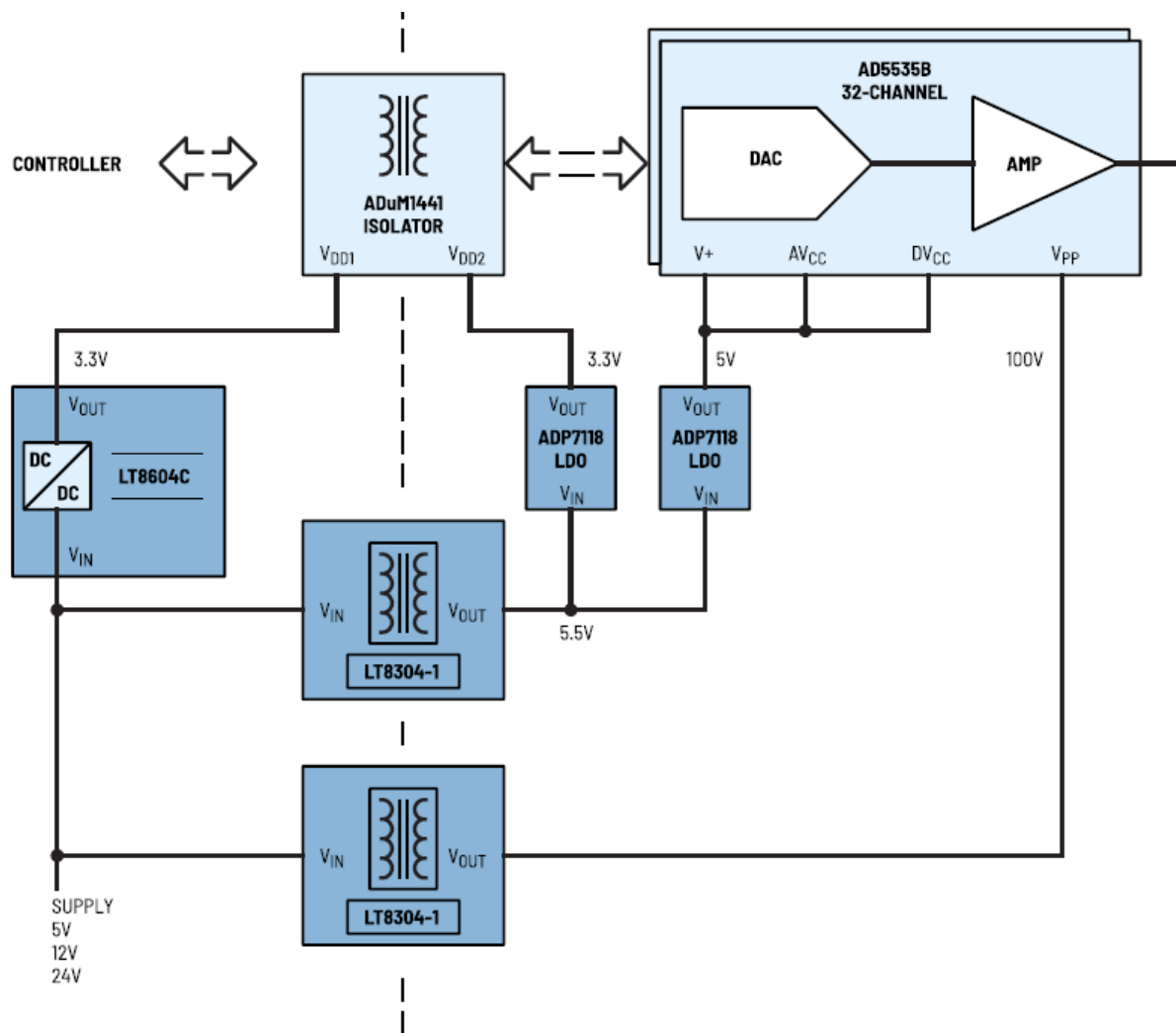
# POWER RE

PARAMETER
Supply Voltage
Supply Current
PSRR

Isolated; Multichannel

With AD5535B DAC & Driver

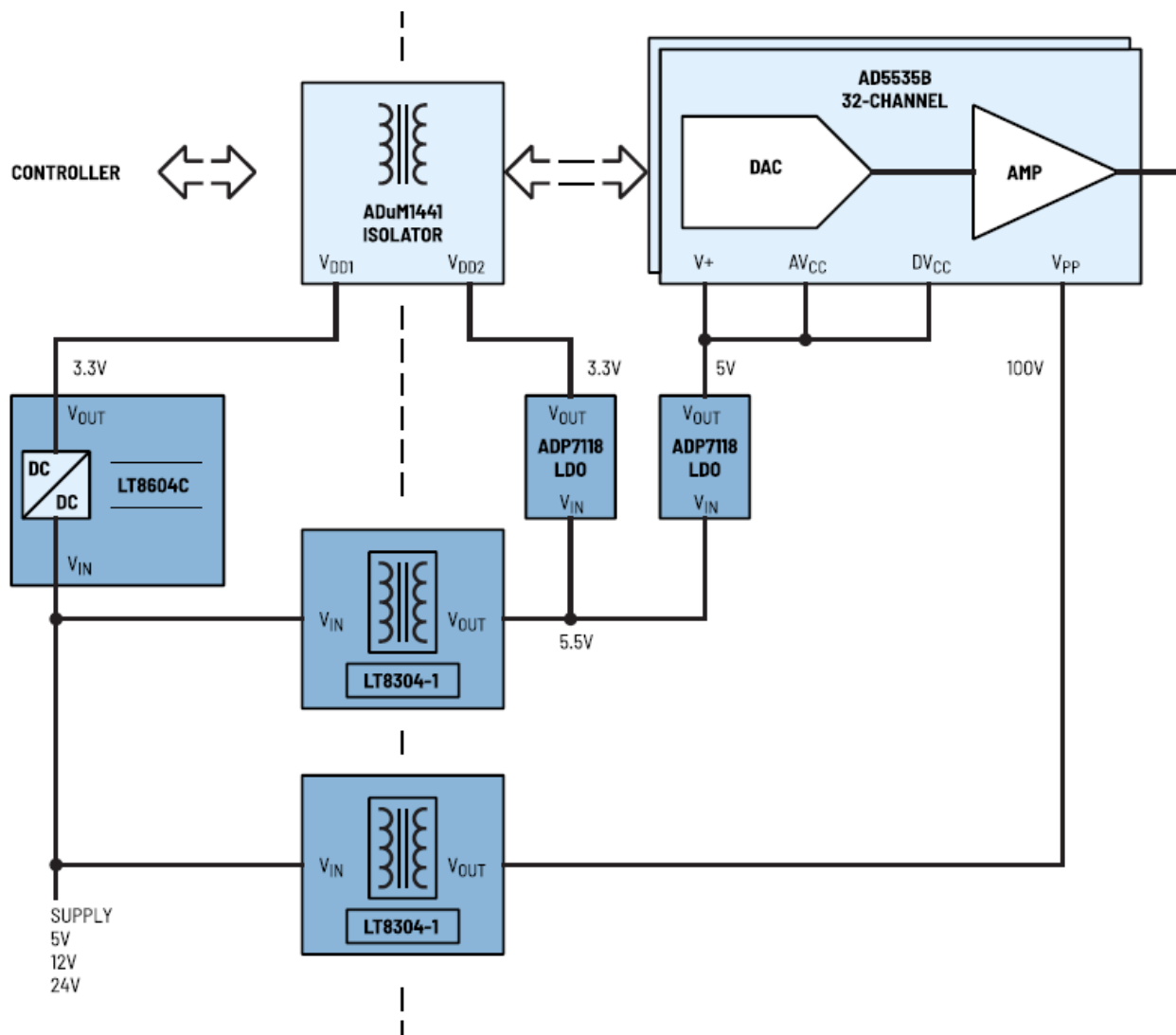
With AD5504 DAC & Driver



Isolated; Multichannel

With AD5535B DAC & Driver

With AD5504 DAC & Driver



Isolated; Multichannel

With AD5535B DAC & Driver

With AD5504 DAC & Driver

PART #	DESCRIPTION
<b>LT8304-1</b>	100VIN Micropower No-Opto Isolated Flyback Converter with 150V/2A Switch
<b>LT8604</b>	High Efficiency 42V/120mA Synchronous Buck
<b>ADP7118</b>	20V, 200mA, Low Noise, CMOS LDO Linear Regulator

Isolated; Multichannel
With AD5535B DAC & Driver
With AD5504 DAC & Driver

## POWER REQUIREMENTS

PARAMETER	STAGES	DAC & DRIVER					ISOLATOR	
	Part #	[1] [2]	AD5535B AD5504				ADuM1441	
	Pin	V+		AV <sub>CC</sub>	V <sub>LOGIC</sub> / DV <sub>CC</sub>	V <sub>PP</sub> /V <sub>D</sub>	V <sub>DD1</sub>	V <sub>DD2</sub>
Supply Voltage	V	[1] [2]	5 —	5 —	5 3.3	100 60	3.3	3.3
Supply Current	mA	[1] [2]	1.7 —	20 —	0.6 0.002	0.06 (per ch) 3	0.9	0.9
PSRR	dB	[1] [2]	— —	— —	— —	— —	—	—

**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.

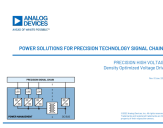
**Note 2:** The supply voltages indicated are the values for typical applications.

**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><b><a href="#">ANALOG DEVICES Precision High Voltage Density Optimized Voltage Drive</a></b> [pdf] User Guide</p> <p>Precision High Voltage Density Optimized Voltage Drive, Precision High, Voltage Density Optimized Voltage Drive, Density Optimized Voltage Drive, Optimized Voltage Drive, Voltage Drive, Drive</p>
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## References

- [▶ Mixed-signal and digital signal processing ICs | Analog Devices](#)
- [▶ ADP7118 Datasheet and Product Info | Analog Devices](#)
- [▶ AD5504 Datasheet and Product Info | Analog Devices](#)
- [▶ AD5535B Datasheet and Product Info | Analog Devices](#)
- [▶ ADUM1441 Datasheet and Product Info | Analog Devices](#)
- [▶ LT8304 LT8304-1 Datasheet and Product Info | Analog Devices](#)
- [▶ LT8604/LT8604C Datasheet and Product Info | Analog Devices](#)