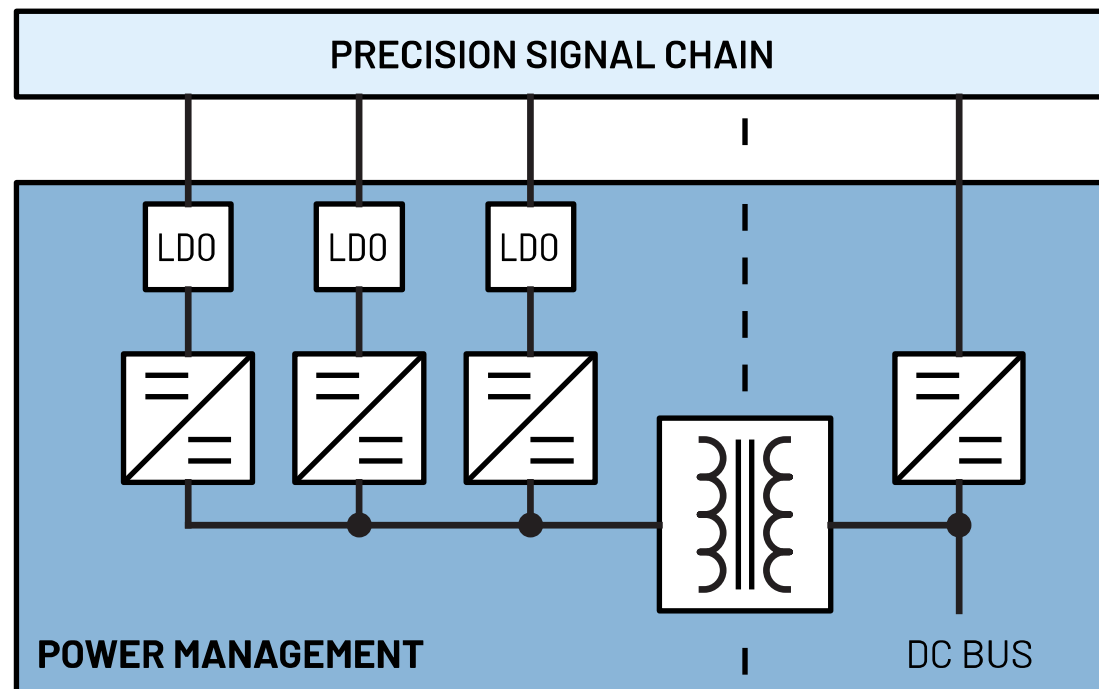


POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION NARROW BANDWIDTH
Fully Integrated Voltage and Current Measurement
Density and Latency Optimized Sensor Ready

Rev. 0 | Jan. 2022



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

For the resources:

APPENDIX	<u>Parts Guide</u>
	<u>Power Requirements</u>

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
<u>LT3471</u>	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN
<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck
<u>LT8570-1</u>	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	POWER RE
<u>1-Channel</u>	
	PARAMETER
	Supply Voltage
	Supply Current
	PSRR

Precision Narrow Bandwidth

APPENDIX

[Parts Guide](#)

[USER GUIDE](#)

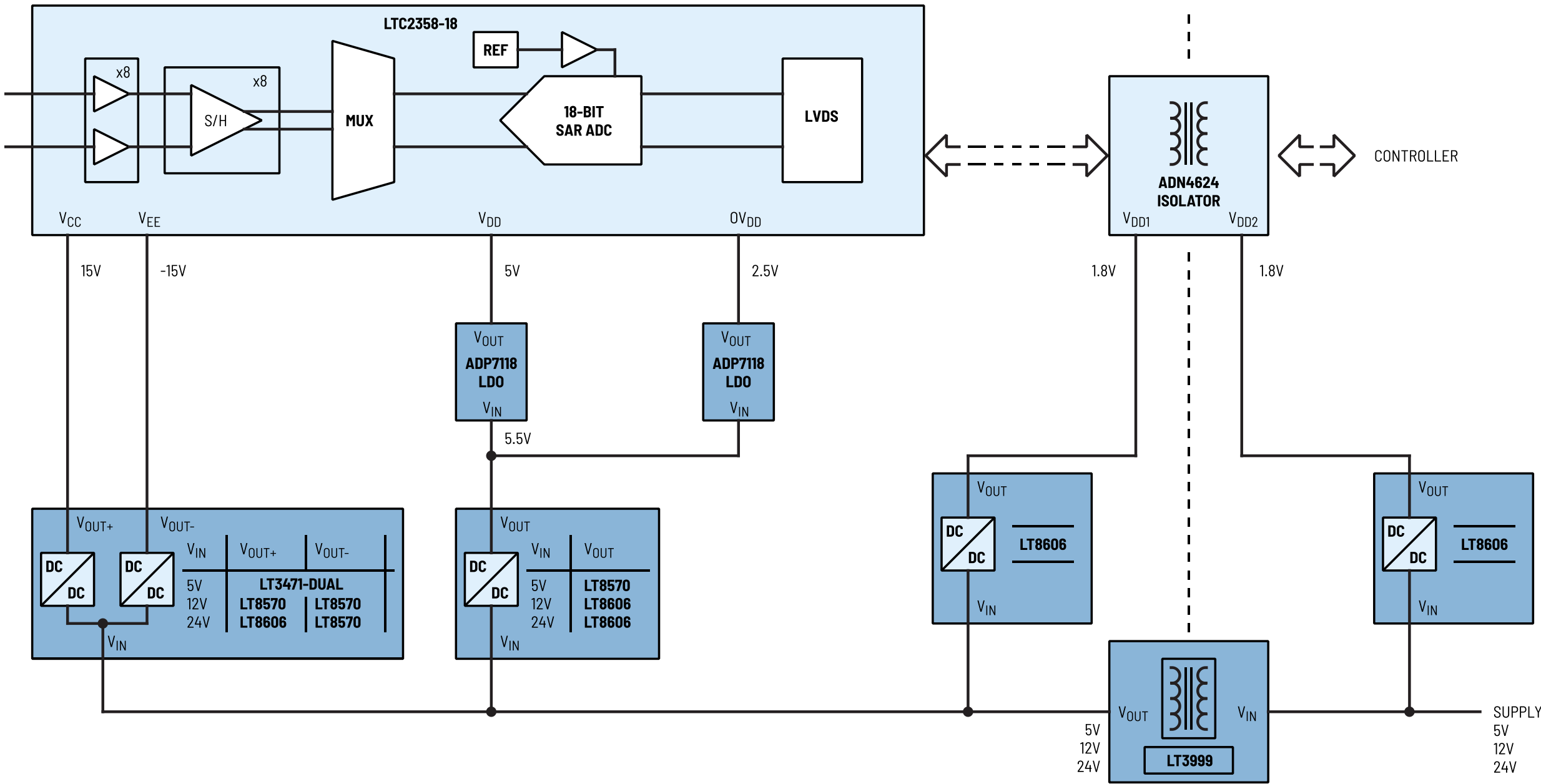
[Power Requirements](#)

Fully Integrated Voltage and Current
Measurement

Density and Latency Optimized Sensor
Ready

Isolated

Multichannel



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PART #	DESCRIPTION
<u>LT3471</u>	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm ×3mm DFN
<u>LT8606</u>	42V, 350mA Synchronous Step-Down Regulator with 2.5µA Quiescent Current
<u>LT8570</u>	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
<u>ADP7118</u>	20V, 200mA, Low Noise, CMOS LDO Linear Regulator



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POWER REQUIREMENTS

PARAMETER	ADC				Isolation	
	LTC2358-18				ADN4624	
	V _{CC}	V _{EE}	V _{DD}	OV _{DD}	V _{DD1}	V _{DD2}
Supply Voltage	15	-15	5	2.5	1.8	1.8
Supply Current	9.8	-9.8	18	2.6	175	175
PSRR (100kHz)	110	90	70	130	-	

- 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.