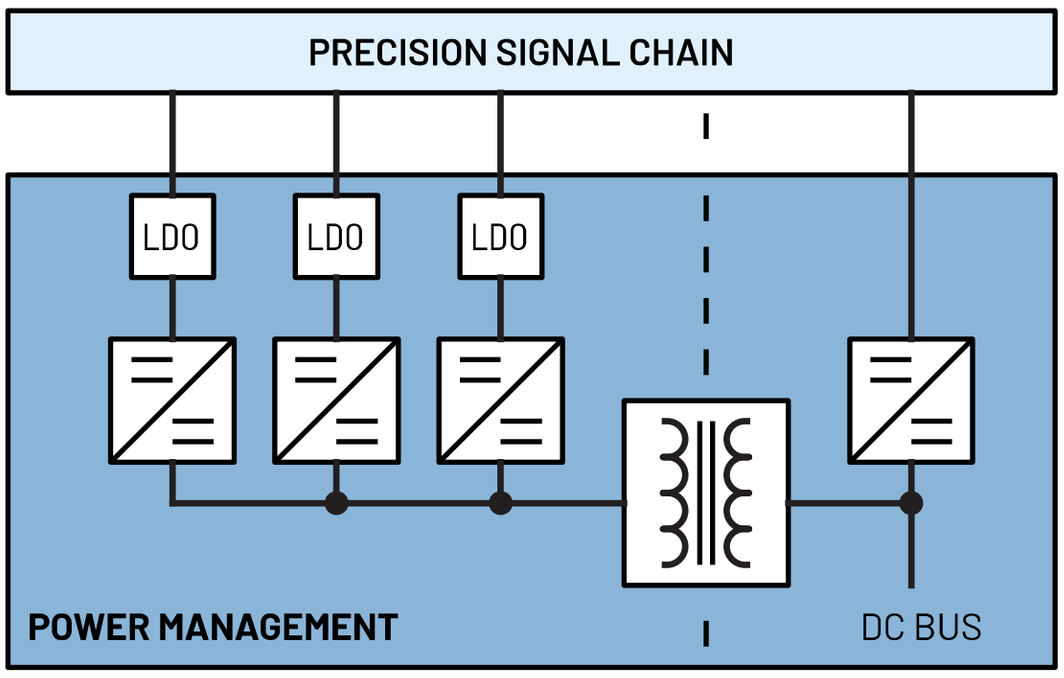
AHEAD OF WHAT'S POSSIBLE™

POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION NARROW BANDWIDTH

Fully Integrated Voltage and Current Measurement Density and Latency Optimized Sensor Ready



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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

APPENDIX

Parts Guide

Power Requirements

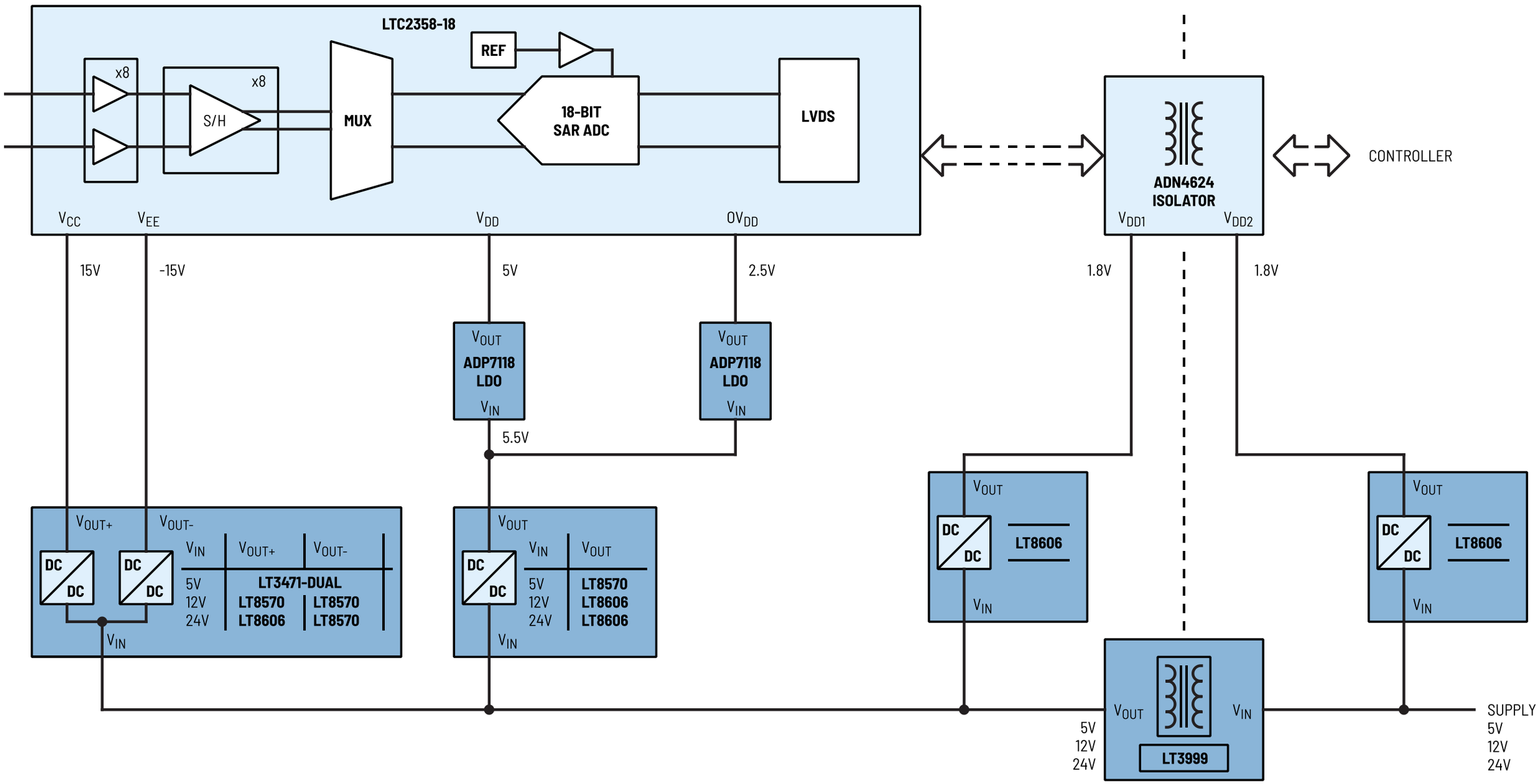
USER GUIDE

Fully Integrated Voltage and Current Measurement

Density and Latency Optimized Sensor Ready

Isolated

Multichannel



Precision Narrow Bandwidth

Fully Integrated Voltage and Current Measurement

Density and Latency Optimized Sensor Ready

Isolated

Multichannel

PART #	DESCRIPTION
LT3471	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm ×3mm DFN
LT8606	42V, 350mA Synchronous Step-Down Regulator with 2.5µA Quiescent Current
LT8570	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

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.