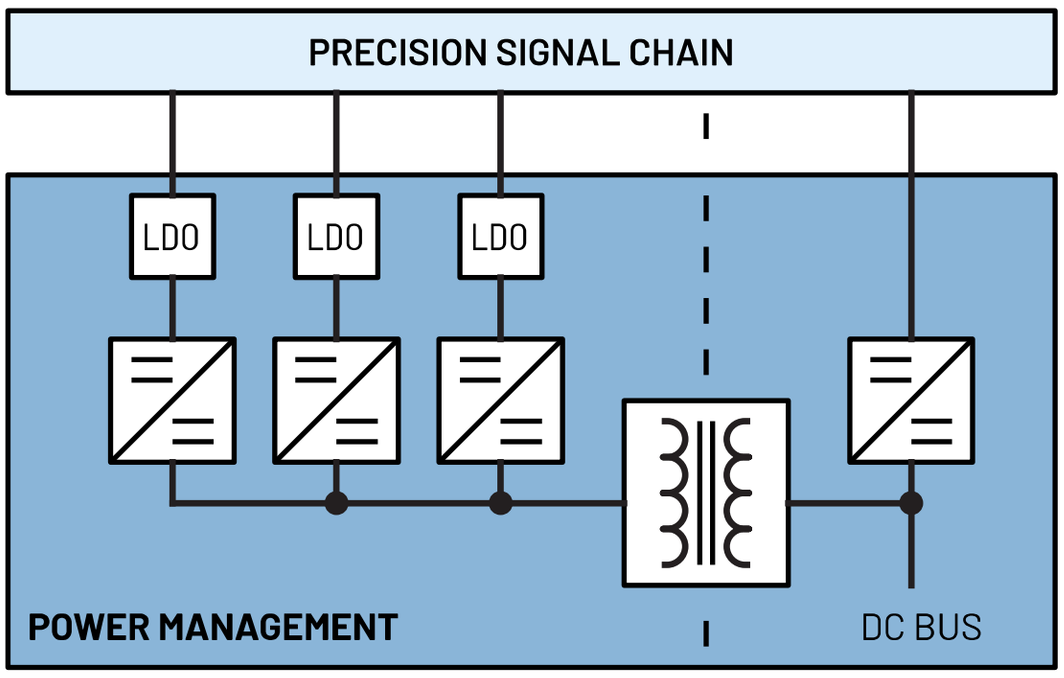
AHEAD OF WHAT'S POSSIBLE™

POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION WIDE BANDWIDTH Light Measurement Power Optimized

Rev. 0 | Jan. 2022



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

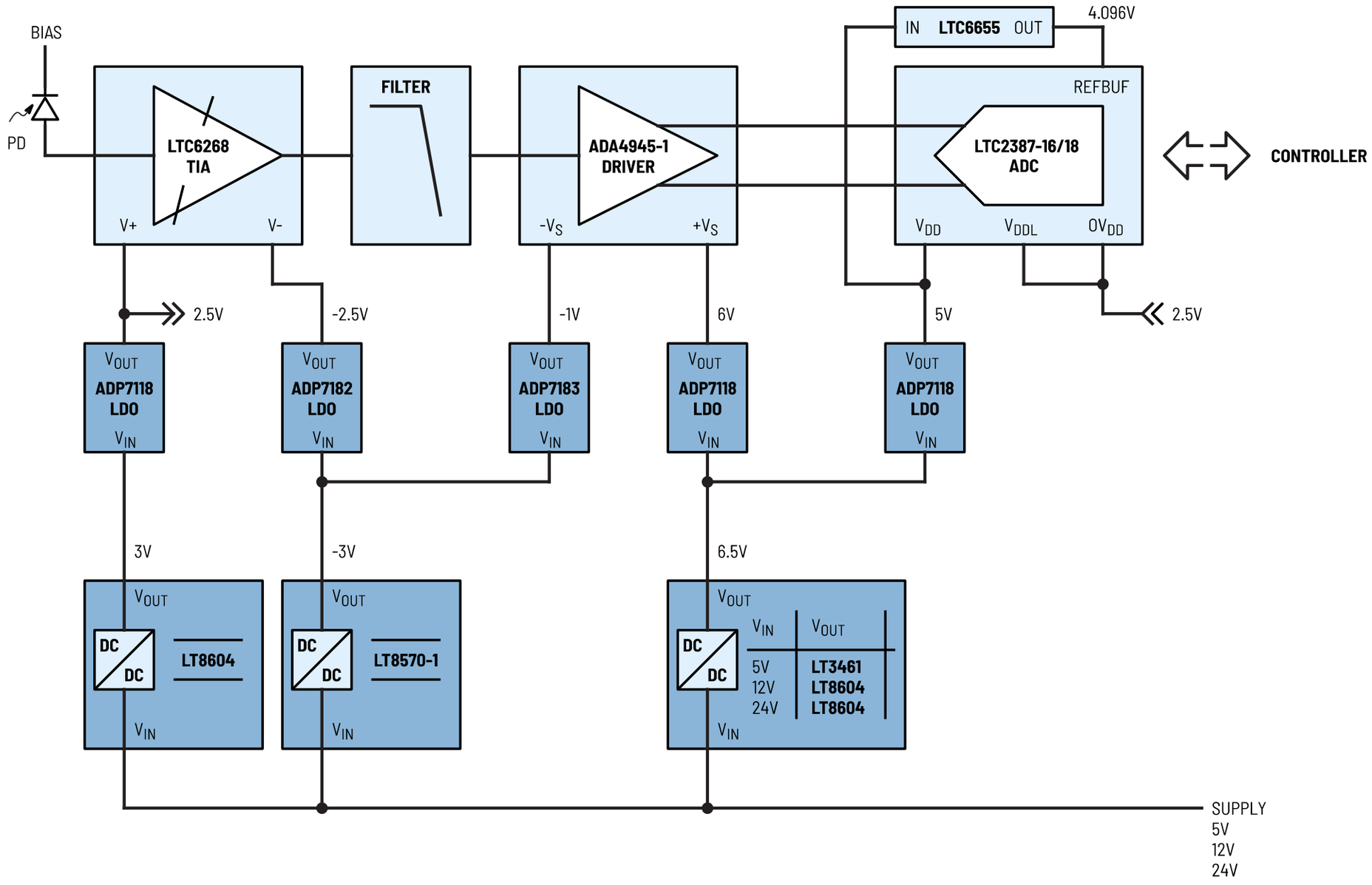
USER GUIDE

Light Measurement

Power Optimized

Non-isolated

1-Channel



Precision Wide Bandwidth

Light Measurement

Power Optimized

Non-isolated

1-Channel

PART #	DESCRIPTION
LT8604	High Efficiency 42V/120mA Synchronous Buck
LT8570-1	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.
LT3461	1.3MHz Step-Up DC/DC Converters with Integrated Schottky in ThinSOT
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator
ADP7182	–28V, –200mA, Low Noise, Linear Regulator
ADP7183	-300 mA, Ultralow Noise, High PSRR, Low Dropout Linear Regulator

POWER REQUIREMENTS

PARAMETER	STAGES	TIA		Filter	ADC Driver		ADC			Reference
	Part #	LTC6268		-	ADA4945-1		LTC2387-16/18			LTC6655
	Pin	V+	V-		$+V_S$	$-V_S$	V_{DD}	V_{DDL}	OV_{DD}	IN
Supply Voltage	V	2.5	-2.5	-	6	-1	5	2.5	2.5	5
Supply Current	mA	23	23	-	4.2	-4.2	6	35	10.3	1.8
PSRR	dB	75		-	105 (1MHz)		-			40 (10kHz)

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.