

# ANALOG DEVICES Precision Narrow Bandwidth Fully Integrated Voltage and Current Measurement Small Low Power Sensor Ready User Guide

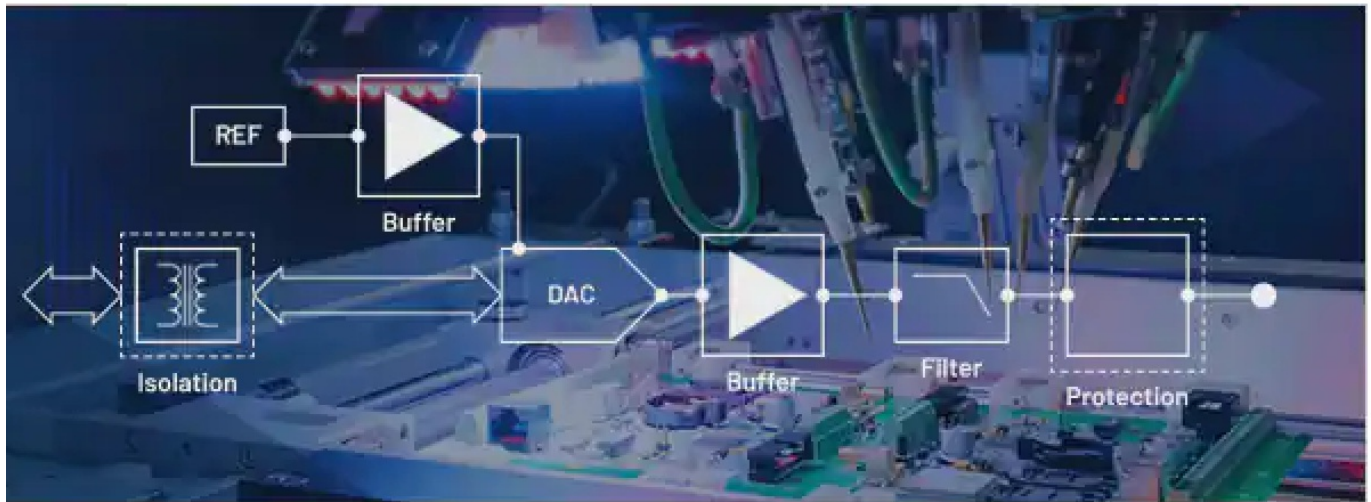
[Home](#) » [Analog Devices](#) » **ANALOG DEVICES Precision Narrow Bandwidth Fully Integrated Voltage and Current Measurement Small Low Power Sensor Ready User Guide** 

## Contents

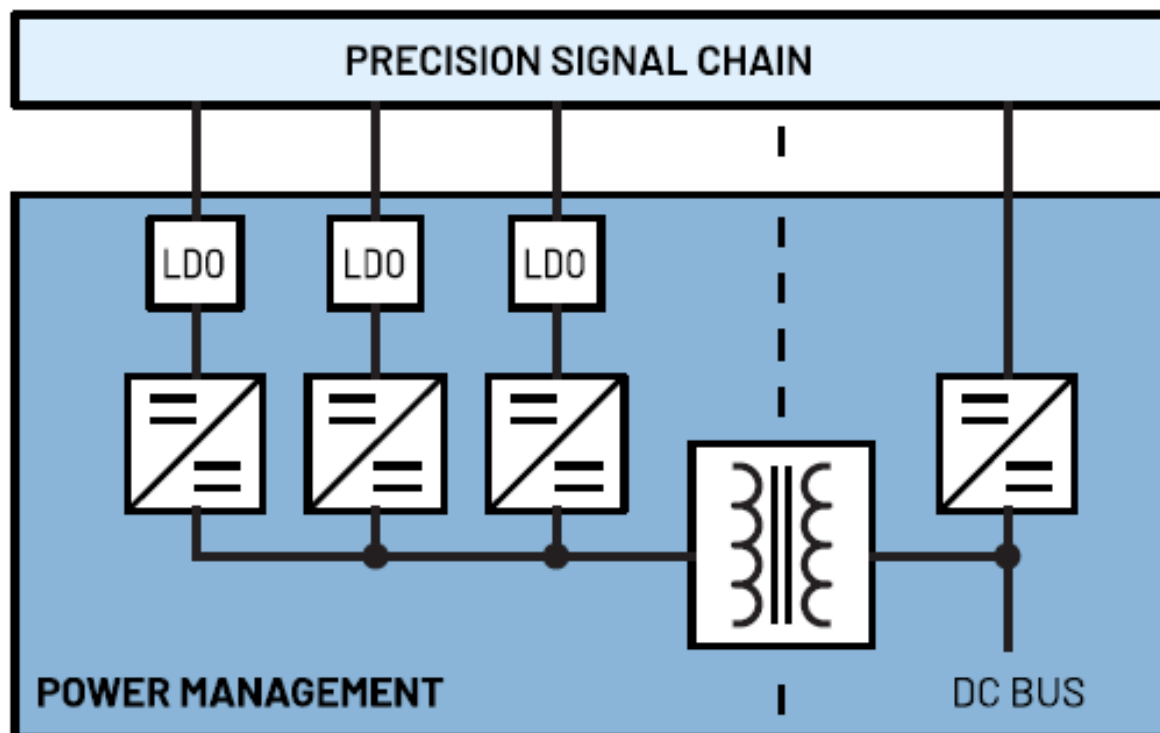
- [1 ANALOG devices Precision Narrow Bandwidth Fully Integrated Voltage and Current Measurement Small Low Power Sensor Ready](#)
- [2 PRECISION SIGNAL CHAIN](#)
- [3 For the resources](#)
- [4 Multichannel](#)
- [5 PART](#)
- [6 POWER REQUIREMENTS](#)
- [7 Documents / Resources](#)
  - [7.1 References](#)
- [8 Related Posts](#)



## ANALOG devices Precision Narrow Bandwidth Fully Integrated Voltage and Current Measurement Small Low Power Sensor Ready



### PRECISION SIGNAL CHAIN



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.

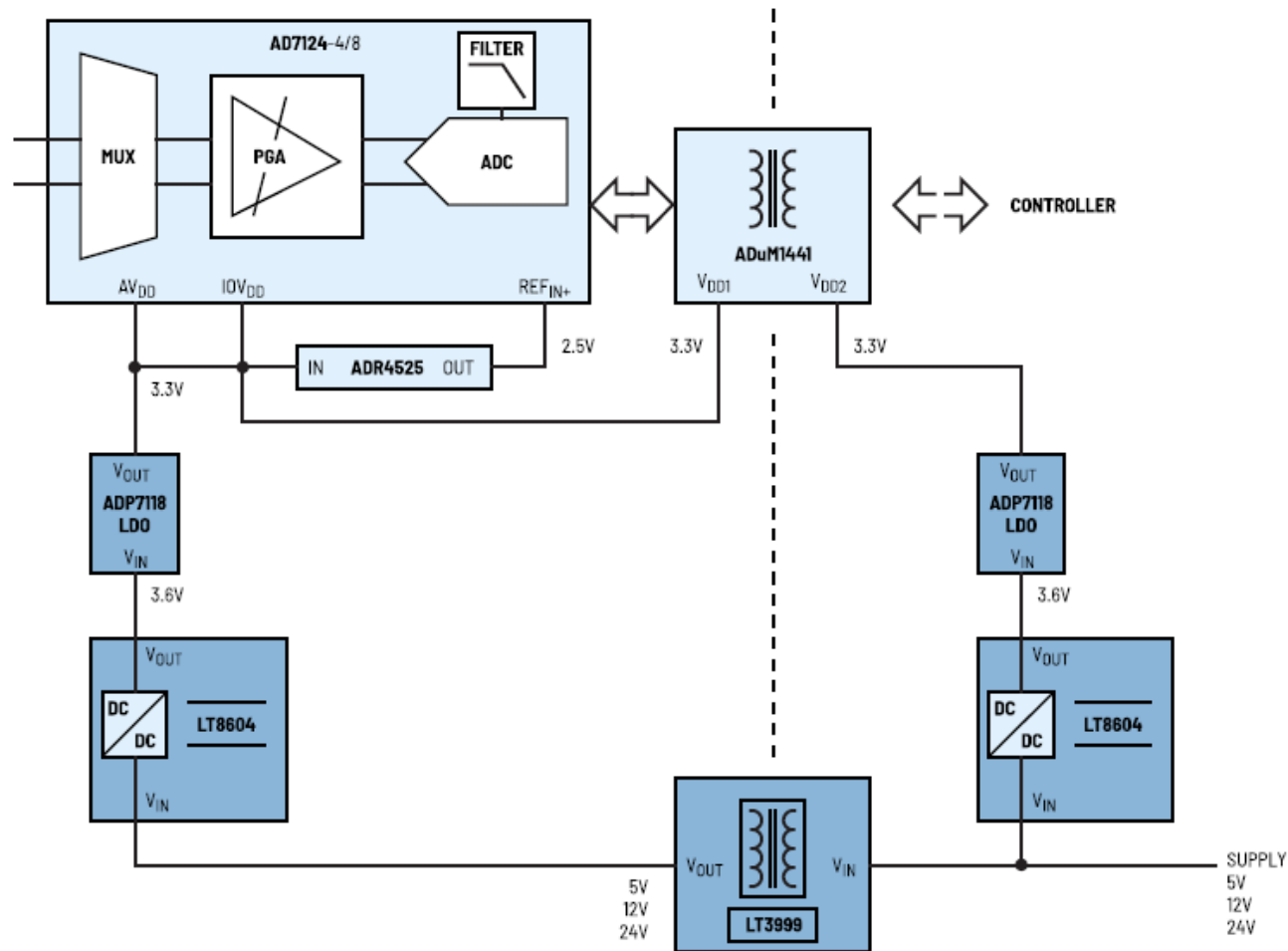
PART #	DESCRIPTION
<a href="#">LT3471</a>	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN
<a href="#">LT8604</a>	High Efficiency 42V/120mA Synchronous Buck
<a href="#">LT8570-1</a>	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.

For the individual pages

Left-click the specific signal chain to go through its respective block diagram or power tree.

Non-isolated	<div>POWER RE</div> <table><tr><th>PARAMETER</th></tr><tr><td>Supply Voltage</td></tr><tr><td>Supply Current</td></tr><tr><td>PSRR</td></tr></table>	PARAMETER	Supply Voltage	Supply Current	PSRR
PARAMETER					
Supply Voltage					
Supply Current					
PSRR					
<u>1-Channel</u>					

Multichannel



PART

PART #	DESCRIPTION
<a href="#">LT8604</a>	High Efficiency 42V/120mA Synchronous Buck
<a href="#">LT3999</a>	Low Noise, 1A, 1MHz Push-Pull DC/DC Driver with Duty Cycle Control
<a href="#">ADP7118</a>	20V, 200mA, Low Noise, CMOS LDO Linear Regulator

POWER REQUIREMENTS


PARAMETER	ADC		Reference	Isolation	
	<a href="#">AD7124-4/8</a>		<a href="#">ADR4525</a>	<a href="#">ADuM1441</a>	
	AV <sub>DD</sub>	IOV <sub>DD</sub>	IN	VDD1	VDD2
Supply Voltage (V)	3.3	3.3	3.3	3.3	3.3
Supply Current (mA)	1.2	0.08	10	0.9	0.9
PSRR	—		50 (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.

## Documents / Resources

	<p><b><a href="#">ANALOG DEVICES Precision Narrow Bandwidth Fully Integrated Voltage and Current Measurement Small Low Power Sensor Ready</a></b> [pdf] User Guide</p> <p>Precision Narrow Bandwidth Fully Integrated Voltage and Current Measurement Small Low Power Sensor Ready, Precision Narrow Bandwidth, Fully Integrated Voltage and Current Measurement Small Low Power Sensor Ready</p>
---	---

## References

- [▶ Mixed-signal and digital signal processing ICs | Analog Devices](#)
- [▶ ADP7118 Datasheet and Product Info | Analog Devices](#)
- [▶ AD7124-4 Datasheet and Product Info | Analog Devices](#)
- [▶ AD7124-8 Datasheet and Product Info | Analog Devices](#)
- [▶ ADR4525 Datasheet and Product Info | Analog Devices](#)
- [▶ ADUM1441 Datasheet and Product Info | Analog Devices](#)
- [▶ LT3999 Datasheet and Product Info | Analog Devices](#)
- [▶ LT8604/LT8604C Datasheet and Product Info | Analog Devices](#)