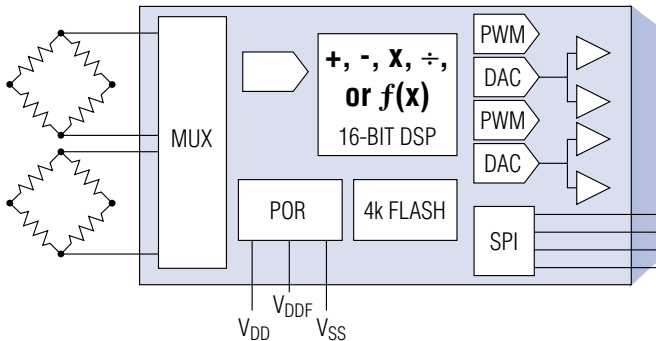


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Dual-Channel, Multi-Order Linearity and Temperature Correction

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The MAX1463 can be user-configured to provide outputs that represent:

- ◆ Separate, Independent Signals
- ◆ The Sum of Inputs
- ◆ The Difference of Inputs
- Or...
- ◆ Any Function Programmed by the User into the On-Chip DSP

- ◆ Accepts Sensor Output Sensitivities from 1mV/V to 1V/V
- ◆ Two Differential Input or Four Single-Ended Sensor Input Channels
- ◆ Integrated Temperature Sensor
- ◆ Two Analog or Digital Output Channels; Outputs Include: 4–20mA, 0.5V to 4.5V, and PWM
- ◆ User-Programmable Signal Correction, Sensor Gain and Offset, Sampling Rate and Resolution
- ◆ Supports Current or Voltage Bridge Excitation

Choose from a Wide Range of Integrated Signal Conditioning ICs

PART	OUTPUT	COMPENSATION METHOD	SUPPLY VOLTAGE (V)	TEMPERATURE SENSOR	EEPROM
MAX1463	Dual-channel digital and analog outputs, 0.5V to 4.5V, 4–20mA, PWM	RISC processor, 16-bit ADC + DSP	5 (400µA)	Internal	Internal
MAX1452/ MAX1455	4–20mA, 0.5V to 4.5V, 0 to 5V Rail-to-Rail®, 2.5 ±2.5V	16-bit DACs, select from 2pt to 176pt temperature compensation and two adjustable clipping limits (MAX1455)	5	Internal	Internal
MAX1457	0.5V to 4.5V, 0 to 5V, 4–20mA	16-bit DACs, selectable from 1pt to 120pt temperature compensation and 1pt linearity correction	5	—	External
MAX1462	Digital (parallel) and Analog, 0 to 2.4VDC, 4–20mA	RISC processor, 16-bit ADC + DSP	2.4 (310µA)	Internal	Internal

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