



**PRODUCT NAME :** PCF8591 8-bit A/D -  
D/A converter for Arduino/Raspb  
erry-Pi/Robotics

**PRICE :** Rs 199.00

**SKU :** RM0451



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## DESCRIPTION

The **PCF8591** is a **8-Bit A/D - D/A Converter** in a single-chip, single supply low power 8-bit CMOS data acquisition device with four analog inputs, one analog output and a serial I<sup>2</sup>C-bus interface.

## Features of PCF8591 8-Bit A/D - D/A Converter:

- Single power supply.
- Operating supply voltage 2.5 V to 6.0 V.
- Low standby current.
- Serial input/output via I<sup>2</sup>C-bus.
- I<sup>2</sup>C address selection by 3 hardware address pins.
- Max sampling rate given by I<sup>2</sup>C-bus speed.
- 4 analog inputs configurable as single ended or differential inputs.
- Auto-incremented channel selection.
- Analog voltage range from VSS to VDD.
- On-chip track and hold circuit.
- 8-bit successive approximation A/D conversion.
- Multiplying DAC with one analog output.

## Applications of PCF8591 8-Bit A/D - D/A Converter:

- Supply monitoring.
- Reference setting.
- Analog control loops.
- DIY projects.
- Arduino projects.
- Raspberry-Pi projects.
- Electrical/Electronic projects.

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