### Product Overview

**LMV981: Low Cost, Low Power 1µA, Rail to Rail I/O, Single Op-Amp with Shutdown**

For complete documentation, see the data sheet

## Product Description

The LMV981 Single and LMV982 Dual are CMOS low-voltage op-amps which can operate on single-sided power supplies (1.8 V to 5.0 V) with rail-to-rail input and output swing. Both devices come in small state-of-the-art packages and require very low quiescent current making them ideal for battery-operated, portable applications such as notebook computers and hand-held instruments. Rail-to-Rail operation provides improved signal-to-noise performance plus the small packages allow for closer placement to signal sources thereby reducing noise pickup. The single LMV931 is offered in space saving SC70-5 package. The dual LMV932 is in a Micro8. These small packages are very beneficial for crowded PCBs. Further reduction of power consumption is available with the addition of a shutdown function in the LMV981 Single and LMV982 Dual. All other functions and performance are the same as the LMV931/932. Shutdown is implemented by driving the SHDN pin LOW.

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Performance Specified on Single-sided Power Supply: 1.8, 2.7, 5 V</td>
<td>Ideal for Battery-operated portable equipment</td>
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<td>Extended Industrial Temperature Range: -40°C to +125°C</td>
<td>Useable for higher-temp applications</td>
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<tr>
<td>Includes Shutdown feature which reduces Quiescent Current to 1uA, max</td>
<td>Extended battery life</td>
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### Applications

- Reference Buffers
- Current Shunt Monitors

### End Products

- PDAs
- Notebook Computers

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