## MEMS Inertial Sensors

### Accelerometers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Range (g)</th>
<th>Output Type</th>
<th>Sensing Axes</th>
<th>BW Typ (MHz)</th>
<th>Sensitivity (mg/g</th>
<th>Voltage Supply (V)</th>
<th>Supply Current (mA)</th>
<th>Temperature Range (°C)</th>
<th>Package</th>
<th>Additional Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADXL103</td>
<td>±17, ±18</td>
<td>Analog</td>
<td>1</td>
<td>2.5</td>
<td>100 mV/g to 1000 mV/g</td>
<td>0.11</td>
<td>3.0 to 6.0</td>
<td>0.7</td>
<td>~40 to ~125</td>
<td>5 mm × 5 mm × 2 mm LCC</td>
</tr>
<tr>
<td>ADXL79</td>
<td>±35, ±50, ±70</td>
<td>Analog</td>
<td>1</td>
<td>0.4</td>
<td>27 mV/g to 55 mV/g</td>
<td>1.1</td>
<td>4.75 to 5.25</td>
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<td>~40 to ±105</td>
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</tr>
<tr>
<td>ADXL001</td>
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<td>Analog</td>
<td>1</td>
<td>2.2</td>
<td>2.2 mV/g to 16 mV/g</td>
<td>3.3</td>
<td>3.35 to 6.6</td>
<td>2.5</td>
<td>~40 to ~125</td>
<td>5 mm × 5 mm × 2 mm LCC</td>
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<tr>
<td>ADXL203</td>
<td>±1.7, ±5, ±18</td>
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<td>2</td>
<td>2.5</td>
<td>100 mV/g to 1000 mV/g</td>
<td>0.11</td>
<td>3.0 to 6.0</td>
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<td>~40 to ~125</td>
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<tr>
<td>ADXL206</td>
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<td>4.75 to 5.25</td>
<td>2.5</td>
<td>~40 to ~175</td>
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</tr>
<tr>
<td>ADXL278</td>
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<td>1.1</td>
<td>4.75 to 5.25</td>
<td>2.2</td>
<td>~40 to ~105</td>
<td>5 mm × 5 mm × 2 mm LCC</td>
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<tr>
<td>ADXL335</td>
<td>±3</td>
<td>Analog</td>
<td>3</td>
<td>1.6</td>
<td>300 mV/g</td>
<td>0.15</td>
<td>1.8 to 3.6</td>
<td>0.35</td>
<td>~40 to ~85</td>
<td>4 mm × 4 mm × 1.45 mm LFCS</td>
</tr>
<tr>
<td>ADXL326</td>
<td>±16</td>
<td>Analog</td>
<td>3</td>
<td>1.6</td>
<td>57 mV/g</td>
<td>0.3</td>
<td>1.8 to 3.6</td>
<td>0.35</td>
<td>~40 to ~85</td>
<td>4 mm × 4 mm × 1.45 mm LFCS</td>
</tr>
<tr>
<td>ADXL337</td>
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<td>Analog</td>
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<td>1.6</td>
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<td>0.175</td>
<td>1.8 to 3.6</td>
<td>0.3</td>
<td>~40 to ~85</td>
<td>3 mm × 3 mm × 1.45 mm LFCS</td>
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<tr>
<td>ADXL325</td>
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<td>Analog</td>
<td>3</td>
<td>1.6</td>
<td>174 mV/g</td>
<td>0.25</td>
<td>1.8 to 3.6</td>
<td>0.35</td>
<td>~40 to ~85</td>
<td>4 mm × 4 mm × 1.45 mm LFCS</td>
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<td>ADXL327</td>
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<td>Analog</td>
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<td>1.6</td>
<td>440 mV/g</td>
<td>0.25</td>
<td>1.8 to 3.6</td>
<td>0.35</td>
<td>~40 to ~85</td>
<td>4 mm × 4 mm × 1.45 mm LFCS</td>
</tr>
<tr>
<td>ADXL377</td>
<td>±200</td>
<td>Analog</td>
<td>3</td>
<td>1.6</td>
<td>6.5 mV/g</td>
<td>2.4</td>
<td>1.8 to 3.6</td>
<td>0.3</td>
<td>~40 to ~85</td>
<td>3 mm × 3 mm × 1.45 mm LFCS</td>
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<tr>
<td>ADXL375s</td>
<td>±200</td>
<td>Digital</td>
<td>3</td>
<td>1.6</td>
<td>49 mLSB</td>
<td>5</td>
<td>2.0 to 3.6</td>
<td>0.03 to 0.14</td>
<td>~40 to ~85</td>
<td>3 mm × 5 mm × 1 mm LGA</td>
</tr>
<tr>
<td>ADXL350s</td>
<td>±1, ±2, ±4, ±8</td>
<td>Digital</td>
<td>3</td>
<td>1.6</td>
<td>2 mLSB</td>
<td>0.25</td>
<td>2.0 to 3.6</td>
<td>0.45 to 0.166</td>
<td>~40 to ~85</td>
<td>3 mm × 4 mm × 1.2 mm LGA</td>
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<tr>
<td>ADXL312s</td>
<td>±15, ±3, ±6, ±12</td>
<td>Digital</td>
<td>3</td>
<td>1.6</td>
<td>2.9 mLSB</td>
<td>0.34</td>
<td>2.0 to 3.6</td>
<td>0.17</td>
<td>~40 to ±105</td>
<td>5 mm × 5 mm × 1.45 mm LFCS</td>
</tr>
<tr>
<td>ADXL345s</td>
<td>±2, ±4, ±8, ±16</td>
<td>Digital</td>
<td>3</td>
<td>1.6</td>
<td>3.9 mLSB</td>
<td>0.52</td>
<td>2.0 to 3.6</td>
<td>0.03 to 0.14</td>
<td>~40 to ±105</td>
<td>5 mm × 5 mm × 1.45 mm LFCS</td>
</tr>
<tr>
<td>ADXL363s</td>
<td>±2, ±4, ±8</td>
<td>Digital</td>
<td>3</td>
<td>0.2</td>
<td>1 mLSB</td>
<td>0.18</td>
<td>1.6 to 3.5</td>
<td>0.002</td>
<td>~40 to ±105</td>
<td>3 mm × 3.25 mm × 1.06 mm LGA</td>
</tr>
<tr>
<td>ADXL362s</td>
<td>±2, ±4, ±8</td>
<td>Digital</td>
<td>3</td>
<td>0.2</td>
<td>1 mLSB</td>
<td>0.18</td>
<td>1.6 to 3.5</td>
<td>0.002</td>
<td>~40 to ±105</td>
<td>3 mm × 3.25 mm × 1.06 mm LGA</td>
</tr>
<tr>
<td>ADXL346s</td>
<td>±2, ±4, ±8, ±16</td>
<td>Digital</td>
<td>3</td>
<td>1.6</td>
<td>3.9 mLSB</td>
<td>0.34</td>
<td>1.7 to 2.75</td>
<td>0.03 to 0.14</td>
<td>~40 to ±105</td>
<td>3 mm × 3 mm × 1 mm LGA</td>
</tr>
<tr>
<td>ADXL313s</td>
<td>±0.5, ±1, ±2, ±4</td>
<td>Digital</td>
<td>3</td>
<td>1.6</td>
<td>1 mLSB</td>
<td>0.25</td>
<td>2.0 to 3.6</td>
<td>0.17</td>
<td>~40 to ±105</td>
<td>5 mm × 5 mm × 1.45 mm LFCS</td>
</tr>
<tr>
<td>ADXL213</td>
<td>±1.2</td>
<td>PWM</td>
<td>2</td>
<td>2.5</td>
<td>30%/g</td>
<td>0.16</td>
<td>3.0 to 6.0</td>
<td>0.7</td>
<td>~40 to ±85</td>
<td>5 mm × 5 mm × 2 mm LCC</td>
</tr>
<tr>
<td>ADXL212</td>
<td>±2</td>
<td>PWM</td>
<td>2</td>
<td>0.5</td>
<td>12.5%/g</td>
<td>0.5</td>
<td>3.0 to 5.25</td>
<td>0.7</td>
<td>~40 to ±85</td>
<td>5 mm × 5 mm × 2 mm LCC</td>
</tr>
</tbody>
</table>

### Gyroscopes

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Range (°/s)</th>
<th>Output Type</th>
<th>Sensing Axes</th>
<th>Voltage Supply (V)</th>
<th>Supply Current (mA)</th>
<th>Temperature Range (°C)</th>
<th>Package</th>
<th>Additional Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADIS16003</td>
<td>1.7</td>
<td>SPI</td>
<td>2</td>
<td>5.5</td>
<td>—</td>
<td>0.11</td>
<td>5</td>
<td>1.5</td>
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<tr>
<td>ADIS16006</td>
<td>5</td>
<td>SPI</td>
<td>2</td>
<td>2.2</td>
<td>—</td>
<td>0.12</td>
<td>5</td>
<td>1.5</td>
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<tr>
<td>ADIS16007</td>
<td>11</td>
<td>SPI</td>
<td>2</td>
<td>5.5</td>
<td>—</td>
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<td>5</td>
<td>1.5</td>
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<td>ADIS16008</td>
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<td>SPI</td>
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<td>5.5</td>
<td>—</td>
<td>0.11</td>
<td>5</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### Additional Features

- **ADC**: Analog-to-Digital Converter
- **SPI**: Serial Peripheral Interface
- **I2C**: Inter-Integrated Circuit
- **PWM**: Pulse Width Modulation
- **FS**: Full Scale
- **BW**: Bandwidth
- **T**: Temperature
- **H**: Humidity
- **L**: Light
- **G**: Gravity
- **F**: Force
- **T**: Time
- **C**: Current
- **V**: Voltage
- **R**: Resistance
- **D**: Distance
- **A**: Angle
- **P**: Pressure
- **W**: Weight
- **U**: Velocity
- **N**: Noise
- **E**: Energy
- **M**: Mass
- **S**: Speed
- **W**: Water
- **L**: Level
- **B**: Bias
- **Q**: Quality

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For more information on ADI MEMS inertial sensors, visit our website at [analog.com/MEMS](http://analog.com/MEMS).
## Gyroscopes

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Range ('/sec)</th>
<th>Output Type</th>
<th>BW Typ (Hz)</th>
<th>In-Run Bias Stability ('/sec)</th>
<th>Angle Random Walk ('/sec√Hr)</th>
<th>Linear Acceleration Effect ('/sec/g)</th>
<th>Sensitivity</th>
<th>Bias Tempco ('/°C)</th>
<th>Sensitivity Tempco (ppm/°C)</th>
<th>Non-Linearity (% FSO)</th>
<th>Voltage Supply (V)</th>
<th>Supply Current (mA)</th>
<th>Start-Up Time (ms)</th>
<th>Temperature Range (°C)</th>
<th>Package</th>
<th>Additional Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADXRS644†</td>
<td>300</td>
<td>Analog</td>
<td>1000</td>
<td>9</td>
<td>0.6</td>
<td>0.015</td>
<td>9 mV/°/sec</td>
<td>—</td>
<td>—</td>
<td>0.1</td>
<td>6</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>Vibration immune, min/max specs across temperature range, ultralow noise</td>
</tr>
<tr>
<td>ADXRS646†</td>
<td>300</td>
<td>Analog</td>
<td>1000</td>
<td>12</td>
<td>0.6</td>
<td>0.015</td>
<td>9 mV/°/sec</td>
<td>—</td>
<td>—</td>
<td>0.1</td>
<td>6</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>Ultrahigh stability, vibration immune, min/max specs across temperature range, ultralow noise</td>
</tr>
<tr>
<td>ADXRS642</td>
<td>250</td>
<td>Analog</td>
<td>2000</td>
<td>20</td>
<td>1.2</td>
<td>0.03</td>
<td>7 mV/°/sec</td>
<td>0.02</td>
<td>308</td>
<td>0.01</td>
<td>4.75 to 5.25</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>High vibration immunity, industrial grade typ specs</td>
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<tr>
<td>ADXRS624</td>
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<td>25 mV/°/sec</td>
<td>0.07</td>
<td>462</td>
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<td>4.75 to 5.25</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>Min/max specs across temperature range</td>
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<td>Analog</td>
<td>3000</td>
<td>60</td>
<td>2</td>
<td>0.1</td>
<td>12.5 mV/°/sec</td>
<td>0.14</td>
<td>462</td>
<td>0.1</td>
<td>4.75 to 5.25</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>Min/max specs across temperature range</td>
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<tr>
<td>ADXRS622</td>
<td>250</td>
<td>Analog</td>
<td>2500</td>
<td>60</td>
<td>2</td>
<td>0.1</td>
<td>7 mV/°/sec</td>
<td>0.10</td>
<td>308</td>
<td>0.1</td>
<td>4.75 to 5.25</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>Min/max specs across temperature range</td>
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<tr>
<td>ADXRS652</td>
<td>250</td>
<td>Analog</td>
<td>2500</td>
<td>60</td>
<td>2</td>
<td>0.1</td>
<td>7 mV/°/sec</td>
<td>0.10</td>
<td>308</td>
<td>0.1</td>
<td>4.75 to 5.25</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>Industrial grade typ specs</td>
</tr>
<tr>
<td>ADXRS620</td>
<td>300</td>
<td>Analog</td>
<td>2500</td>
<td>60</td>
<td>2</td>
<td>0.1</td>
<td>6 mV/°/sec</td>
<td>0.11</td>
<td>308</td>
<td>0.1</td>
<td>4.75 to 5.25</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>Min/max specs across temperature range</td>
</tr>
<tr>
<td>ADXRS645†</td>
<td>2000</td>
<td>Analog</td>
<td>2000</td>
<td>150</td>
<td>10.6</td>
<td>0.1</td>
<td>9 mV/°/sec</td>
<td>—</td>
<td>—</td>
<td>0.1</td>
<td>5</td>
<td>3.5</td>
<td>50</td>
<td>–40 to +175</td>
<td>8 mm × 9 mm × 3 mm, 15-lead brazed lead tri in-line package</td>
<td>High temperature</td>
</tr>
<tr>
<td>ADXRS649†</td>
<td>20,000+</td>
<td>Analog</td>
<td>2000</td>
<td>200</td>
<td>15</td>
<td>0.03</td>
<td>0.01 mV/°/sec</td>
<td>—</td>
<td>—</td>
<td>0.1</td>
<td>5</td>
<td>3.5</td>
<td>3</td>
<td>–40 to +105</td>
<td>7 mm × 7 mm × 3 mm BGA</td>
<td>High rotation rate up to 50,000°/sec, industrial grade typ specs</td>
</tr>
<tr>
<td>ADXRS453</td>
<td>300</td>
<td>Digital</td>
<td>77.5</td>
<td>16</td>
<td>0.9</td>
<td>0.01</td>
<td>0.0125°/LSB</td>
<td>0.0034</td>
<td>207</td>
<td>0.05</td>
<td>3.15 to 5.25</td>
<td>6</td>
<td>100</td>
<td>–40 to +105</td>
<td>9 mm × 9 mm × 4 mm LCC VMP</td>
<td>Calibrated over temperature, vibration immune, in-plane and out-of-plane sensing</td>
</tr>
<tr>
<td>ADXRS450</td>
<td>300</td>
<td>Digital</td>
<td>80</td>
<td>25</td>
<td>0.9</td>
<td>0.03</td>
<td>0.0125°/LSB</td>
<td>0.02</td>
<td>462</td>
<td>0.05</td>
<td>3.15 to 5.25</td>
<td>6</td>
<td>100</td>
<td>–40 to +105</td>
<td>9 mm × 9 mm × 4 mm LCC VMP</td>
<td>High vibration immunity, industrial grade typ specs, in-plane and out-of-plane sensing</td>
</tr>
</tbody>
</table>

### MEMS Gyroscope Sensor Subsystems (All Single Axis)

- **ADXRS6060**: High vibration immunity, in-plane and out-of-plane sensing
  - Temperature Range: –40°C to +105°C
  - Package: 8 mm × 8 mm × 5 mm LGA
- **ADXRS6080**: High vibration immunity, in-plane and out-of-plane sensing
  - Temperature Range: –40°C to +105°C
  - Package: 8 mm × 8 mm × 5 mm LGA
- **ADXRS1637**: External clock option
  - Temperature Range: –40°C to +105°C
  - Package: 36 mm × 44 mm × 14 mm module
- **ADXRS1639’**: External clock option
  - Temperature Range: –40°C to +105°C
  - Package: 36 mm × 44 mm × 14 mm module
- **ADXRS1633’**: Wide dynamic range
  - Temperature Range: –40°C to +105°C
  - Package: 36 mm × 44 mm × 14 mm module
- **ADXRS1639**:
  - Temperature Range: –40°C to +105°C
  - Package: 11 mm × 11 mm × 5 mm LGA
- **ADXRS620**: Calibration temperature: 25°C
  - Temperature Range: –40°C to +105°C
  - Package: 11 mm × 11 mm × 5 mm LGA
- **ADXRS6265**: Calibration temperature range: –40°C to +85°C
  - Temperature Range: –40°C to +105°C
  - Package: 11 mm × 11 mm × 5 mm LGA
- **ADXRS6266**: Bartlett FIR Filter
  - Temperature Range: –40°C to +105°C
  - Package: 11 mm × 11 mm × 5 mm LGA

† Includes part specific factory calibration, programmable filtering, and digital self test.

For multiaxis solutions, see the MEMS Inertial Measurement Unit (IMU) selection table.
#Sensor MEMS Inertial Measurement Units (IMUs)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Output Type</th>
<th>Gyro (°/sec)</th>
<th>Acceleration (g)</th>
<th>Magnetometer (gauss)</th>
<th>Barometer (mbars)</th>
<th>In-Run Bias Stability (°/hr)</th>
<th>Angle Random Walk (°/MS)</th>
<th>Bias Tempco (°/sec/°C)</th>
<th>Linear Acceleration Effect (g/LSB)</th>
<th>Sensitivity (°/sec/LSB)</th>
<th>Sensitivity Tempco (ppm/°C)</th>
<th>Non-Linearity (% FS)</th>
<th>Alignment (°)</th>
<th>BW Typ (Hz)</th>
<th>Start-Up Time (ms)</th>
<th>Voltage Supply (V)</th>
<th>Temperature Range (°C)</th>
<th>Package</th>
<th>Additional Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADIS16305</td>
<td>Digital</td>
<td>300</td>
<td>3</td>
<td>N/A</td>
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<td>1.85</td>
<td>0.006</td>
<td>0.02</td>
<td>0.0125</td>
<td>20</td>
<td>0.1</td>
<td>0.1</td>
<td>330</td>
<td>0.037</td>
<td>180</td>
<td>5</td>
<td>–40 to +85</td>
<td>23 mm × 31 mm × 8 mm module</td>
</tr>
<tr>
<td>ADIS16445</td>
<td>Digital</td>
<td>250</td>
<td>5</td>
<td>N/A</td>
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All ADI MEMS IMUs include part specific factory calibration and programmable filtering, unless noted.