**SmartIndustrial™**

**PRIMARY APPLICATIONS**

- **Agriculture**
  Bridge GNSS outage, provide terrain compensation inputs in various agricultural environments for equipment navigation, guidance, and positioning.

- **Mapping, Surveying, & Georeferencing**
  Maintain blade and bucket position on bulldozers, excavators, motor- graders, etc. IMU data is coupled with GNSS to constrain position and bridge GNSS outage.

- **Construction Equipment**
  Precision data enables the creation of HD surveys and maps, but also provides exact position for stabilization and location.

- **Manufacturing & Robotics**
  Industrial robots use motion data to enable automation, improve efficiency, monitor conditions via the precise motion and vibration measurements produced.

**FEATURED PRODUCTS**

- **IIM-42652**
  Compact 6-axis configurable IMU that can withstand an extended operating temperature range while requiring very low power.

- **IIM-42351/2**
  High-performance, Low-power Accelerometer with multiple capabilities to enable easy, robust and accurate inertial and vibration measurements.

- **IIM-46230/4**
  High-performance fault tolerant 6-Axis IMU that combines multiple 3-axis gyroscopes and 3-axis accelerometers packaged in a single module.

**PRODUCT CATEGORIES**

- **IIM-42352**
  Vibration Sensing and Synchronization
  - Operating Temperature Range of -40°C to 105°C
  - Ability to provide external clock to synchronize with the system
  - Bandwidth measurement up to 4 kHz

- **IIM-42351**
  Construction Tools and Machinery
  - Operating Temperature Range of -40°C to 105°C
  - 10,000g shock withstand powered
  - Good stability over temp

- **IIM-42652**
  Autonomous Mobile Robots & Equipment
  - Operating Temperature Range of -40°C to 105°C
  - 10,000g shock withstand powered
  - Good bias instability 6.9 deg/hr
  - Low noise density 70ug

- **IIM-46230**
  High End Industrial, GNSS Module, Delivery Systems
  - Best in class bias instability 1.9°/hr
  - Ultra low ARW = 0.09°/√(hr)
  - Processing power to incorporate complex algorithms
  - Fault tolerance

**PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Package (mm)</th>
<th>Gyro Sensing Range (°/sec)</th>
<th>Accel Sensing Range (g)</th>
<th>Interface</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>IIM-42351</td>
<td>2.5 x 3 x 0.91 14-pin LGA</td>
<td>2000</td>
<td>16</td>
<td>I²C™, PC, or SPI</td>
<td>Compact, lower power, extended temperature range</td>
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<td>High-performance, fault tolerant, low bias instability</td>
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