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1.0 OVERVIEW

The Memsense Communication Interface Protocol Evaluation Software (MS-CIP Eval SW) is implemented as a simple application to allow customers to rapidly connect to, configure and collect data from a Memsense Inertial Measurement Unit (IMU). The software currently supports the MS-IMU3020.

2.0 INSTALLATION

2.1 SYSTEM REQUIREMENTS

The MS-CIP Evaluation Software requirements are included in the table below.

<table>
<thead>
<tr>
<th>System Parameter</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Windows 7 (.NET 4.5 or later)</td>
</tr>
<tr>
<td>Minimum Graphics Resolution</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Graphics Device</td>
<td>DirectX 9 with WDDM 1.0 or higher driver</td>
</tr>
<tr>
<td>Minimum RAM</td>
<td>1 GB</td>
</tr>
<tr>
<td>USB Port</td>
<td>1 port available</td>
</tr>
</tbody>
</table>

2.2 INSTALLATION

The MS-CIP Evaluation Software can be downloaded by following the link below to the Memsense website under the MS-IMU3020 product page (https://memsense.com/products/ms-imu3020) and clicking the MS-CIP Evaluation Software link. Simply follow the installation instructions provided in the installer.
3.0 APPLICATION OPERATION

3.1 QUICK START

1. Connect Green IMU end of Cable
   Connect the green end of MS-IMU3020 interface cable to the MS-IMU3020

2. Connect the Black Circular Connector
   Connect the black end of the MS-IMU3020 interface cable to the USB –DAQ.

3. Launch the MS-CIP Eval App
   Start the MS-CIP Eval application from Start>All Programs>Memsense>MS-CIP Eval. Click the drop down arrow for the Com Port selection to view the available com ports as in the figure below.
4. Connect the Memsense USB-DAQ
   Upon connecting the Memsense USB-DAQ to the USB port of the computer an additional com port associated with the USB-DAQ will appear in the Com Port drop down.

5. Select the Com Port
   Select the com port that became available after plugging in the USB-DAQ.

6. Select the Baud Rate
   Select 460800 bps from the Baud Rate options in the Connection window. The factory default baud rate for the MS-IMU3020 is 460800 bps, unless when ordering your device it was specified at a different factory default baud rate. If your device was ordered with a different baud rate then select that baud rate.

7. Click Connect
   Click the Connect button in the Connection window. Upon clicking the Connect button the connection indicator turns from red to green indicating a successful connection. If the connection indicator turns yellow it usually means the baud rate doesn't match the device or a connector is disconnected.
## REVISION HISTORY

<table>
<thead>
<tr>
<th>REV</th>
<th>STATUS</th>
<th>DESCRIPTION</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Released</td>
<td>Initial Release</td>
<td>11-06-2018</td>
</tr>
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