# Feature

- Intel® ATOM™ E39xx Series + Cyclone® 10 FPGA Framework
- Sensor: Omni Vision 9281 with MIPI CSI, global shutter sensor, 1MP, 120fps
- Multiple I/O, available to connect with multiple devices
- PWM optics control integrated
- Video capture, imaging processing and video analysis
- Open platform for 3rd party software and algorithms
- IP67, severe industrial application environment protection
- Support Windows 10/Linux OS

## Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>RVS-2100-01</th>
<th>RVS-2100-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>Intel® ATOM™ E3930 Dual Core + Cyclone® 10</td>
<td>Intel® ATOM™ E3950 Quad Core + Cyclone® 10</td>
</tr>
<tr>
<td>Frequency</td>
<td>1.3GHz up to 1.8GHz</td>
<td>1.6GHz up to 2.0GHz</td>
</tr>
<tr>
<td>Memory</td>
<td>Up to 8GB, on board, LPDDR4 Dual channel 2400MHz</td>
<td>Up to 256G EMMC</td>
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<tr>
<td>EMMC</td>
<td>Display Port</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>1x RS232</td>
<td>1x USB2.0</td>
</tr>
<tr>
<td>I/O interface</td>
<td>1x i210 Gbe Ethernet</td>
<td>4x DIO</td>
</tr>
<tr>
<td>1x MIPI CSI</td>
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</tbody>
</table>

### Sensor

- **Image sensor**: OV9281
- **Resolution**: Max: 1280*800, 120fps
- **Scan mode**: monochrome, Progressive scan
- **Pixel Size (μm)**: 3μm x 3μm
- **Pixel (MP)**: 1MP

### Physical

- **Connectors**: 1x M12 8-PIN (female), 1x M12 17-PIN (female), 1x M12 17-PIN (female)
- **Lens mount**: C mount or M12 mount
- **Operating Temperature**: 0°C ~ +50°C
- **Storage Temperature**: -20°C ~ +70°C
- **Dimensions**: 120 mm (L) x 55 mm (W) x 37 mm (H)

### Software Support

- **OS**: Windows 10, Linux

## Schematics

![Schematics](image-url)