AeroCore 2 for Intel® Joule™ module
Product datasheet

Product Features

<table>
<thead>
<tr>
<th>Input/output</th>
<th>4-Pin Header</th>
<th>2x2, 0.1“ Male Pin Header.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6-Pin Header</td>
<td>2x3, 0.1“ Male Pin Header.</td>
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</table>

<table>
<thead>
<tr>
<th>Robotics</th>
<th>Barometer</th>
<th>Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller Area Network (CAN)</td>
<td>For use in applications employing the CAN serial communication physical layer in accordance with the ISO 11898 standard.</td>
<td></td>
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</tbody>
</table>

<table>
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<tr>
<th>General</th>
<th>5-pin GPS Connector</th>
</tr>
</thead>
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<tr>
<th>Processor</th>
<th>Processor</th>
<th>ARM Cortex-M4 Microcontroller</th>
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<tr>
<th>Usb</th>
<th>USB Device</th>
<th>Micro B USB Plug</th>
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PKG900000000399 USD179.00
AeroCore 2 for the Intel® Joule™ module
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The Intel® Joule™ module is all ready for the robotic and quad-rotor world with this expansion board, building on known, quality drone boards from Gumstix.

Expanding on the AeroCore 2 product suite, the AeroCore 2 provides MAV control to the Intel® Joule™ module. With an ARM Cortex-M4 microcontroller running NuttX RTOS and an integrated connection to the connected Intel® Joule™ module, AeroCore 2 gives users a complete Linux installation on a PX4-compatible platform.

The addition of support for NimbeLink Skywire LTE modems makes the AeroCore 2 for Intel® Joule™ module the perfect platform for drone and swarm projects. Have your drone text you when it reaches it’s waypoint or stream data to your server from anywhere over a high-speed LTE connection.

The 9-axis internal measurement unit, along with an altimeter, monitored in real time by the embedded ARM M4 microcontroller, combined with optional geopositioning with the GPS connector, gives you accurate positional feedback from your drone.

Intel® Joule™ module datasheet

Designed by Gumstix in Geppetto

Customize Your Board
====================

Customize the AeroCore 2 for Intel® Joule™ module to your project’s specific needs in Geppetto D2O. Add sensors or remove unused components with the ease of a drag-and-drop interface.

- Clone and customize your own AeroCore 2 expansion board design for the Intel® Joule™ module

*Explore and create a customized expansion board from scratch

*Learn more about Geppetto

What's included

1 × AeroCore 2 for Intel X

Key component

1 × Magnetic Buzzer SMT (5V 30mA 92dBA)
1 × Texas Instruments SN65HVD232 CAN Transceiver
1 × FTDI FT232RQ USB UART Interface
1 × Memory (SPI FRAM 1MB 1.8V)
1 × MS5611 Barometric Sensor
2 × Micro B USB Plug

Product links

- Technical Specifications
- Customize In Geppetto
- Geppetto® Workspace