Motion

NW-MOT-ICM42686P Coming Soon

Break out Board for the InvenSense ICM-42686-P MEMS MotionTracking™

Description:

The InvenSense ICM-42686-P is a 6-axis, single interface, MotionTracking™ device that combines a 3-axis gyroscope and a 3-axis accelerometer in a small 2.5x3x0.91 mm (14-pin LGA) package. It also features a 2K-byte FIFO that can lower the traffic on the serial bus interface and reduce power consumption by allowing the system processor to burst read sensor data and then go into a low-power mode. ICM-42686-P, with its 6-axis integration, enables manufacturers to eliminate the costly and complex selection, qualification, and system level integration of discrete devices, guaranteeing optimal motion performance for consumers.

The ICM-426868-P supports industry first 20-bits data format in FIFO for high-data resolution. Other industry-leading features include programmable digital filters, an embedded temperature sensor, and programmable interrupts. The device features I3C℠, I²C and SPI serial interfaces, a VDD operating range of 1.71 V to 3.6 V, and a separate VDDIO operating range of 1.71 V to 3.6 V

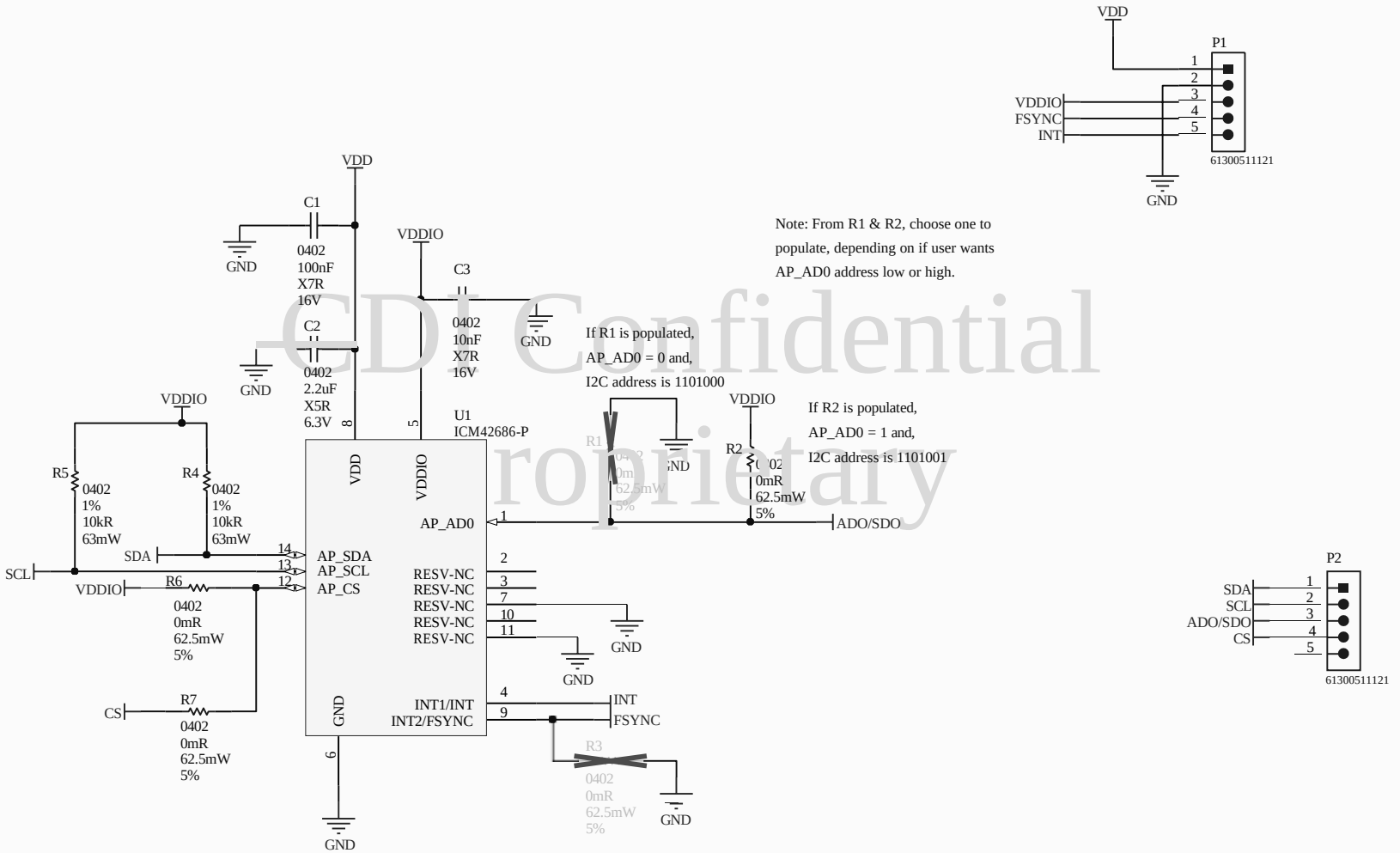
The NM-MOT-42686P provides an easy to use, low-cost, very small breakout board for the ICM-42686-P. The NOT-MOT-ICM42686P is configured to applications for I2C output only. All pins are all mapped to standard 2.54mm/0.1” headers. This allows for use in a standard bread board or to be ‘wired’ into an application. The header-header spacing is 7.62mm (300mil).

Additional Information:

For more information on the NW-MOT-42686P users can get the complete datasheet from the link below.
https://www.invensense.com/products/motion-tracking/6-axis/

Features:

- Ultra-small 16.3x13.8mm (0.59”x0.5”) breakout board with .1”/2.54mm header spacing that can be directly soldered into a prototype or used with a breadboard.
- 7.62mm (300mil) header-header spacing.
- All ICM-42686-P pins are mapped to header pins



Note: If user is trying to test CLKIN/FSYNC functionality, leave R3 unpopulated.

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