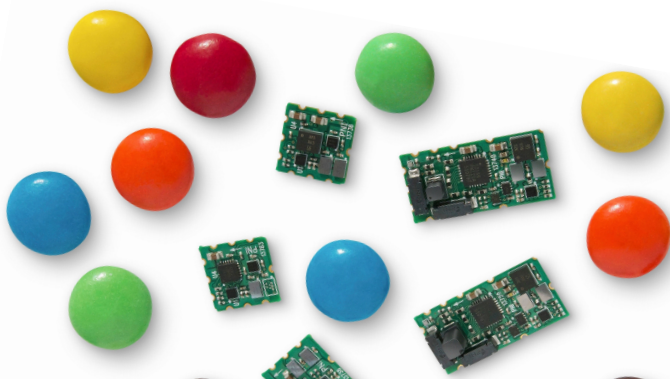


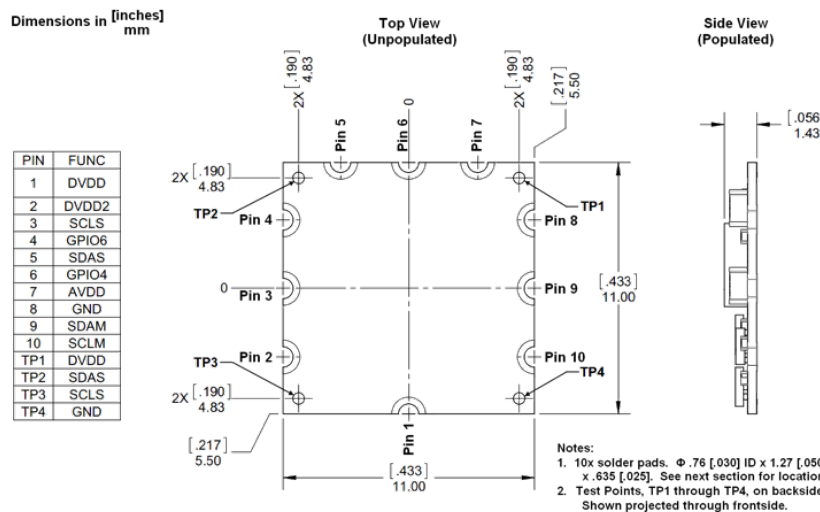


Do you want a module that has precise motion and heading measurements that can be simply dropped into your product? The solution is **PNI's SENtral M&M™** modules: a range of supremely accurate, low-power, and ready-to-integrate motion measurement modules. The new M&M platform integrates PNI's ultra-low power SENtral™ Motion Coprocessor with third-party accelerometers, gyroscopes, and magnetometers - as well as PNI's own geomagnetic sensors - to achieve highest-accuracy motion tracking and heading measurements in a low-power system-on-board. PNI's leading sensor fusion algorithms conveniently run on the SENtral and do not require any algorithm or software licenses, making it truly play-and-play. And the form factor easily integrated into even the most size-constrained applications.

Unlike other IMU modules, which require unexpected and extensive sensor fusion algorithm development and sensor calibration work, the SENtral M&M modules are pre-engineered to provide the **highest accuracy motion tracking and heading measurement**. This unbeatable accuracy is ready to be integrated into your application at a fraction of the power of any other solution on the market.



Parameter	Min	Typical	Max	Units
Digital Supply Voltage	1.71		AVDD	VDC
Analog Supply Voltage	2.4		3.6	VDC
Host I2C Data Rate			3400	kbits/sec
Sensor I2C Data Rate			1000	kbits/sec
Operating Temperature	-40	+25	+85	C



SENtral M&M Red, Green, & Yellow Mechanical Drawing

Item	Sensors	Part #
White M&M	None (SENtral Only)	13734
Red M&M	MPU6500+AK8963	13763
Green M&M	LSM330+AK8963	13736
Yellow M&M	LSM9DS0	13738
Blue M&M	LSM330+RM3100	13759
Orange M&M	BMI055+AK8963	13771

About PNI

PNI Sensor Corporation is the leader in the exacting science of producing pinpoint heading and orientation technology and algorithms for the consumer, military, scientific and oceanography communities. Building on decades of patented sensor development, PNI offers highly accurate magneto inductive sensor systems and 9-axis sensor fusion technology. Its products are used in consumer electronics, robotics, surveying, navigation and automotive applications across the globe. To learn more, please visit

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