



www.robotshop.us www.robotshop.ca

Accelerometer, IMU Comparison Chart

Revised 04/12/08

RobotShop	Acceleration	Axes	Interface	Input Voltage	Dimensions	Extras
Product #	[±g]	[#]	[Type]	[V]	[mm]	
RB-Spa-04	1.2	2	Analog / PWM	3 to 6	18 x 18	ROHS
RB-Spa-02	1.5	2	Analog	3.3 to 5.25	18 x 18	ROHS
RB-Dim-05	2	2	Analog	3 to 5	11 x 18	Safety Features
RB-Spa-01	2	2	Analog	3 to 5	18 x 18	ROHS
RB-Spa-05	2	2	Analog	3 to 5	18 x 18	ROHS
RB-Spa-08	2	2	Analog	3 to 5	18 x 18	ROHS
RB-Dim-08	3	3	Analog	3 to 5	12 x 18	Safety Features
RB-Spa-11	3	3	Analog	2 to 3.6	18 x 18	ROHS
RB-Spa-70	3	3	Analog	2 to 3.6	20 Diameter	Circular
RB-Phi-49	3	3	USB	5	Unk.	
RB-Dim-01	5	2	Analog	3 to 5	10 x 18	Safety Features
RB-Spa-06	5	2	Analog	2.4 to 5.25	18 x 18	ROHS
RB-Phi-09	5	2	USB	5	Unk.	
RB-Spa-12	6	3	I2C / SPI	2.16 to 3.6	21 x 23	ROHS
RB-Pol-48	6	3	Analog	2.2 to 3.6	20 x 14 x 3	
RB-Spa-13	6	3	Analog	3.3	25 x 25	ROHS
RB-Spa-14	6	3	Bluetooth	4 to 6	56 x 71 x 18.5	Tilt (gyro)
RB-Spa-09	6	3	RS-232	3.3 to 12	32 x 44	ROHS
RB-Spa-10	6	3	RS-232	3.3 to 12	31 x 56	ROHS
RB-Spa-117	8	3	I2C / SPI	2.16 to 3.6	5 x 3 x 1	Surface Mount Chip
RB-Spa-07	18	2	Analog	2.4 to 5.25	18 x 18	ROHS
RB-Rbb-04	1.75	3	Analog	N/A	N/A	
RB-Min-02	10	3	I2C	4.7	54 x 18.5 x 21	LEGO
RB-Spa-156	8	3	I2C / SPI	2.16 to 3.6	15 x 15	

Inertia Measurement Unit (IMU) Comparison Chart

Revised: 04/08/08

Note: IMUs include one or more gyroscopes, some may include additional features

RB-Spa-27	5	2	Analog	5	20 x 25.4	Dual axis gyro (75deg/s)
RB-Spa-21	3	3	Analog	3.3	20 x 23	Dual axis gyro (500deg/s)
RB-Spa-25	5	2	Analog	5	20 x 25.4	Single axis gyro (150deg/s)
RB-Spa-26	5	2	Analog	5	20 x 25.4	Single axis gyro (300deg/s)
RB-Spa-24	1.7	2	Analog	5	20 x 25.4	Single axis gyro (75deg/s)
RB-Spa-22	1.7	2	Analog	5	20 x 25.4	Single axis gyro (150deg/s)
RB-Spa-23	1.7	2	Analog	5	20 x 25.4	Single axis gyro (300deg/s)
RB-Spa-76	6	3	TTL	4.8 to 9	51 x 51 x 23	Triple axis gyro (150deg/s)
RB-Spa-77	6	3	TTL	4.8 to 9	51 x 51 x 23	Triple axis gyro (300deg/s)
RB-Spa-78	6	3	TTL	4.8 to 9	51 x 51 x 23	Triple axis gyro (75deg/s)
RB-Spa-79	6	3	Bluetooth	4.8 to 9	51 x 51 x 23	Triple axis gyro (150deg/s)
RB-Spa-80	6	3	Bluetooth	4.8 to 9	51 x 51 x 23	Triple axis gyro (300deg/s)
RB-Spa-81	6	3	Bluetooth	4.8 to 9	51 x 51 x 23	Triple axis gyro (75deg/s)
RB-Spa-82	6	3	Bluetooth	4.8 to 9	51 x 51 x 23	Quad axis gyro (500deg/s)