
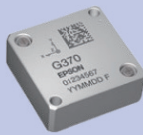





■ IMU Product Line-up

- M-G370PDS0 : Low Noise and High Stability IMU
- M-G370PDF1 : Wide Dynamic Range and High Stability IMU
- New** • M-G366PDG0 / M-G330PDG0 : Dynamic Tilt Function IMU
- M-G552 Series : Water and Dust Proof IMU with J1939, CANopen and RS422 Interface (Interface is selectable)

Product Name			M-G370PDS0	M-G370PDF1	New M-G366PDG0	New M-G330PDG0	M-G552 Series*1
Features			Low Noise High Stability	Wide Range High Stability	Standard Model Dynamic Tilt	Basic Model Dynamic Tilt	Water and Dust proof
Gyroscope	Bias Instability	°/h	0.8	0.8	1.2	3	0.8
	Output Range	°/s	± 200	± 450	± 450	± 400	± 450
	Random Walk	°/√h	0.03	0.06	0.08	0.1	0.06
	Band Width	Hz(Max.)	189	189	472	500	189
Accelerometer	Output Range	G	± 10	± 10	± 8 / ± 16 *2	± 8 / ± 16 *2	± 10
	Initial Bias	mG, σ	2	2	3	4	3
Misalignment (Gyro/Accelerometer)		°	0.01				0.01
Current Consumption		mA(Typ.)	16				32 @12 V
Voltage Supply		V	3.3				9 ~ 32
Operating Temperature		°C	- 40 ~ + 85				-30 ~ +80
Interface			SPI / UART				J1939 (CANopen and RS422 is selectable by product code)
Size		mm ³	24 x 24 x 10				65 x 60 x 30
Weight		g	10				115
Dynamic Tilt Function EKF(Extended Kalman Filter)			---	---	Built in	Built in	---
Functions			External Trigger Input, etc				IP67
Product Image							

Please contact us for information on RoHS and Reach.

*1 The product model number and specification values are determined by the built-in IMU.



The values on this page are the specifications of M-G552PJ7x. Please contact us for detailed information on other products.
Interface is selectable by product code.

* 2 Selectable by register setting.



■ Vibration Sensor / Accelerometer Product Line-up

- M-A342VD10 : Built-in Type Vibration sensor (UART / SPI Interface), ISO 10816 and ISO 20816 compliant
- M-A542VR10 : Water and Dust Proof Vibration sensor (RS422 Interface), ISO 10816 and ISO 20816 compliant
- M-A352AD10 : Built-in Type Accelerometer (UART / SPI Interface), Detectable in the range from DC
- M-A552AC10/AR10 : Water and Dust Proof Accelerometer (CAN / RS422 Interface) , Detectable in the range from DC

Vibration Sensor

Product Name		M-A342VD10	M-A542VR10
Features		Built-in Type	Water and Dust Proof (IP67)
Interface		UART / SPI Selectable	RS422
Transfer Speed	bps	115.2 k~921.6 k(Default 460.8 k)	
Detected Axis		3(X/Y/Z)	
Physical Output Formats		Velocity and Displacement	
Output Formats		raw, rms, p-p (digital output)	
Output Range	Velocity mm/s	± 100	
	Displacement mm	± 200	
Measured Frequency Range	Velocity Hz	10 ~ 1,000	
	Displacement Hz	1 ~ 100	
Operating Temperature	°C	-30 ~ +85	-30 ~ +70
Current Consumption	mA(Typ.)	29 @ 3.3 V	51 @12 V
Voltage Supply	V	3.15 ~ 3.45	9 ~ 32
Size	mm ³	48 x 24 x 16	65 x 60 x 30
Weight	g	25	128
Product Image			

Accelerometer

Product Name		M-A352AD10	M-A552AC10 M-A552AR10
Features		Built-in Type	Water and Dust Proof (IP67)
Interface		UART / SPI Selectable	CANopen:M-A552AC10 RS-422 :M-A552AR10
Noise Density	μG/Hz	0.2	0.5
Output Range	G	± 15	± 15
Detected Axis		3(X/Y/Z)	3(X/Y/Z)
Physical Output Formats		Acceleration, Tilt Angle (Selectable on each axis)	Acceleration, Tilt Angle (Selectable on each axis)
Measured Frequency Range	Hz	DC ~ 460	DC ~ 460
Output Rate	Sps(Max.)	1,000	1,000
Resolution	μG/LSB	0.06	0.06
Shock	G(Max.)	1,000	1,000
Operating Temperature	°C	-30 ~ +85	-30 ~ +70
Current Consumption	mA(Typ.)	13.2	35@12 V:M-A552AC10 49@12 V:M-A552AR10
Voltage Supply	V	3.3	9 ~ 32
Size	mm ³	48 x 24 x 16	65 x 60 x 30
Weight	g	25	128
Product Image			

Please contact us for information on RoHS and Reach.