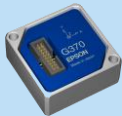
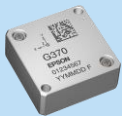




# Epson IMU Lineup

*New!*

**EPSON**

Items		Unit	M-G370PDT Premium	M-G370PDG Advanced	M-G366PDG Standard Attitude output	M-G330PDG Basic Attitude output	M-G570PR20 Multi IMU High precision/Low noise	M-G552 Series*2 Waterproof
Gyroscope	Range	° /s	± 200	± 450	± 450	± 400	± 450	± 450
	Nonlinearity	% of FS	0.05	0.05	0.05	0.05	0.05	0.05(<300dps) 0.2(>300dps)
	Bias Instability	° /h	0.8	0.8	1.2	3	0.5	0.8
	Angular Random Walk	° /√h	0.03	0.06	0.08	0.1	0.04	0.06
	Initial Bias Error	° /h, σ	360	360	360	720*1	360	360
	Bandwidth	Hz	189	189	472	500	189	189
Accelerometer	Range	G	± 8/±16 (Selectable)	± 8/±16 (Selectable)	± 8/±16 (Selectable)	± 8/±16 (Selectable)	± 15	± 10
	Bias Instability	μG	24	24	24	34	14	12
	Velocity Random Walk	(m/s)/√h	0.020	0.020	0.020	0.030	0.012	0.033
	Initial Bias Error	mG, σ	2	2	3	4	2	3
Attitude output	Range	°	---	---	Inclination: ± 80(x,y) Euler: ± 180(Pitch) ± 45(Roll)	Inclination: ± 80(x,y) Euler: ± 180(Pitch) ± 45(Roll)	---	---
	Accuracy	°, σ			± 0.2	± 0.3		
Operating Temperature range (°C)			-40 to +85			-30 to +70		-30 to +80
Calibration Temperature (°C)			-40 to +85			-30 to +70		-30 to +80
Interface			SPI / UART			RS422		J1939 (CANopen / RS422) Selected by code
Data Output Rate (Hz, max)			2,000		2,000(Tilt/Euler:200)		2,000	1,000
Current Consumption			16 mA, 3.3V			60 mA, 12V		32 mA, 12 V
Product Image			 					
Size (mm) / Weight (g)			24x24x10/10			65x60x30/ 150		65x60x30/ 115

\*1: 720 °/h : -10°C to 60°C, 1800 °/h : -40°C to 85°C

\*2 The product model number and specification values are determined by the built-in IMU. The values on this page are the specifications of M-G552PJ7. Please contact us for detailed information on other products. Interface is selectable by product code.

## **Disclaimer**

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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer’s technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.



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