

GPS/AHRS

**GLOBAL POSITIONING SYSTEM
/ ATTITUDE AND HEADING
REFERENCE SYSTEM
(GPS/AHRS)**



GPS/AHRS is Tamagawa Seiki's new Attitude and Heading Reference System. MEMS gyroscope and MEMS accelerometer make it highly reliable, lightweight and compact. In addition, since it is equipped with a GPS receiver, you can use the GPS data as an aiding Source by simply connecting a GPS antenna. The algorithm uses the Kalman filters and combines the data from gyroscopes and accelerometers with GPS data to enhance attitude accuracy.

This equipment is in the development phase and equipment certification activities.

MEMS: Micro-Electromechanical Systems

Characteristics

Modes	GPS/hybrid mode (GPS aiding) MAG/hybrid mode (Magnetometer aiding) Pure mode (gyroscope, accelerometer only)
Attitude	0.1 degree (Static) 0.2 degree (Dynamic)
Heading	1.0 degree (Static) 2.0 degree (Dynamic)
Reliability	>32,000 hour MTBF
Certifications	DO - 178C DO - 254 DO - 160G
TSO	TSO - C201
Interfaces	ARINC 429 discrete I/O RS - 422 (maintenance)
Size	195x75x109mm (Excluding protruding parts)
Power	< 20 W with 28VDC
Weight	< 4.41 lbs. (2.0 kg)

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