

ARGO 500

Super Attitude and Heading Reference System



S-AHRS/IMU

for Navigation and Stabilization

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The **ARGO 500** is the most modern solid-state Fiber Optic Gyros based Inertial Platform with an optimized SWaP-C (Size, Weight, Power and Cost) solution for next generation aircraft Fly By Wire (FBW) flight control.

ARGO 500 represents a scalable solution for Navigation to Stabilization dual-use applications from Urban Air Mobility and Helicopters to Fast Jets Aircraft.



CHARACTERISTICS	ARGO 510 (S-AHRS gyrocompass)	ARGO 520 (AHRS/IMU)
True Heading (95%)	1	N.A.
Roll/Pitch (95%)	0.1	0.8
Position (95%)	1nm/15min	N.A.
Alignment time (data availability)	5 mins	30 sec
Alignment time (full accuracy)	Mag Sensor, TAS, GNSS (optional)	Mag Sensor, TAS
Aiding source	Mag Sensor, TAS, GNSS (optional)	Mag Sensor, TAS
SW/HW Compliance	DO-178C, DO-254	DO-178C, DO-254

SYSTEM CHARACTERISTICS

Interfaces

RS422/RS232
ARINC429
Ethernet
PPS
Data output rate: *up to 500 Hz*

Environmental and Reliability

Operating Temperature: -40°C to $+71^{\circ}\text{C}$
Not-operating Temperature: -55°C to $+85^{\circ}\text{C}$
Altitude: *up to 50,000 ft*
EMC/EMI: *DO-160G*
Vibration: *sinusoidal 5-150 Hz*
random 10-2000 Hz (DO-160G)
MTBF: *> 25000 hours*

Dimensions

WxHxD: *106x126x178*

Weight

2.5 Kg

Power requirements

28VDC (18-36VDC): *<15 W*
(configuration dependent)

