

AGNC coremicro® AHRS/INS Specification

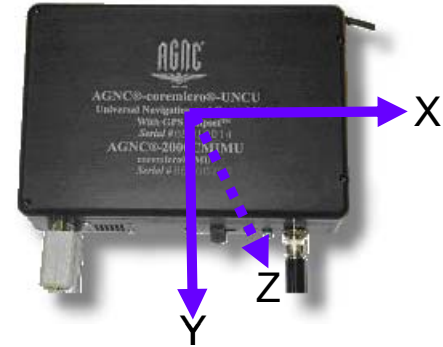
GSA Contract Number: GS-24F-0014K

SIN Number: 602-22

AGNC-coremicro-UNCU

Universal Navigation and Control Unit

PARAMETER	SPECIFICATION
Pitch and Roll	0.10° after initial alignment
Pitch, Roll, Heading Range	$\pm 90^\circ$, $\pm 180^\circ$, 0° to 360°
Angle Resolution	1.6 arc sec
Heading	About 5°
Supply	8-12 VDC
Supply Current at 25°C	1.7A (max), 1.4A (typical)
Power Consumption	13W (max), 11W (typical), 6W (sustained)
Output Signal Latency	16 mS
Digital Output	USB 1.1, RS-232; Binary and ASCII (NMEA 0183 standard sentences and AGNC proprietary sentences) format (per customer's specification)
Analog Output	
Operating Temperature	-40° to 70° C
Storage Temperature	-40° to 100° C
Shock	150 g
Vibration	7 g rms (with isolators)
Startup Time	800 mS
MTBF	100,000 hrs

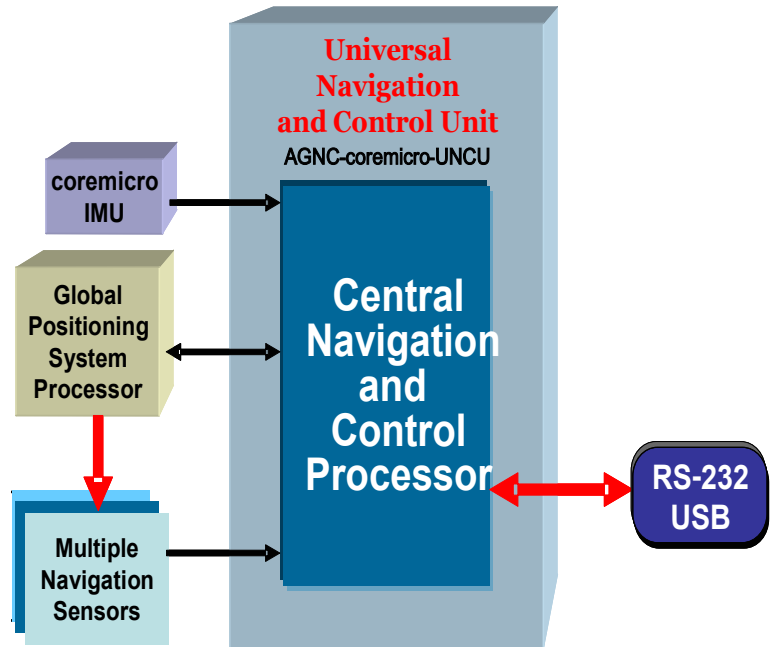


coremicro® AHRS/INS OUTPUT PARAMETERS

Parameter	Data Type	Units
Time	Float	Seconds
Rate X	Float	Degrees/Second
Rate Y	Float	Degrees/Second
Rate Z	Float	Degrees/Second
Accel X	Float	Meters/Second ²
Accel Y	Float	Meters/Second ²
Accel Z	Float	Meters/Second ²
Pitch	Float	Degrees
Roll	Float	Degrees
Heading	Float	Degrees

Coremicro® GPS/INS OUTPUT PARAMETERS

Latitude	Double	Degrees
Longitude	Double	Degrees
Altitude	Float	Meters from Sea Level
Velocity X (North)	Float	Meters/Second
Velocity Y (East)	Float	Meters/Second
Velocity Z (Down)	Float	Meters/Second



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