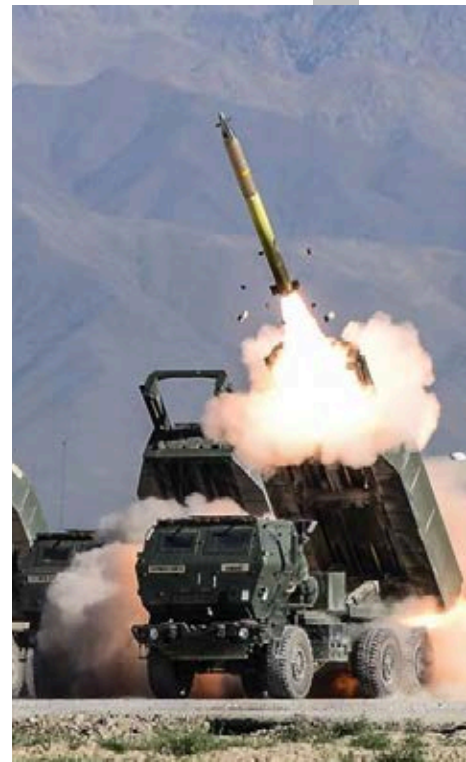


SPACE & NAVIGATION



ADVANCED INERTIAL SENSING AND NAVIGATION TECHNOLOGIES

📍 450 Clark Dr. Budd Lake, NJ 07828
🌐 www.Aerospherepower.com
✉ Sales@Aerospherepower.com





Aerosphere
Power &
Navigation™

POWER & INERTIAL NAVIGATION SYSTEMS

Aerosphere Power & Navigation

Aerosphere Power & Navigation (APN) is an aerospace and defense technology provider delivering mission-critical power conversion, navigation, and sensing solutions for customers operating across land, sea, air, and space. Our systems support some of the world's most demanding applications—where reliability, precision, and performance are non-negotiable.

APN was established as a standalone operating unit within Velocity One through the strategic combination of two highly complementary technology portfolios: the Power Conversion product line from Cartridge Actuated Devices and EMCORE's Space & Navigation division. By bringing these capabilities together under a single organization, APN was created to provide customers with a more focused, agile partner capable of delivering integrated solutions for complex aerospace and defense systems.

➞ Our Core Values

- **Trust & Integrity:** We operate with unwavering transparency and ethical conduct, building lasting relationships through reliability and moral accountability.
- **Customer Focus:** We prioritize our customers by actively listening and delivering tailored solutions that exceed their expectations.
- **Quality:** Our commitment to rigorous quality standards ensures every product and process reflects excellence and earns lasting trust.
- **Precision Engineering:** We apply meticulous attention to detail and cutting-edge technology to deliver high-performance, enduring solutions.
- **Innovation:** We foster a culture of curiosity and collaboration that drives breakthrough ideas and continuous advancement.

➞ Get in Touch



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Next-Generation Navigation Solutions. Precision-Engineered. Mission-Critical.

DELIVERING PRECISE, RESILIENT NAVIGATION
IN THE WORLD'S MOST DEMANDING AND GPS-
DENIED ENVIRONMENTS.



Space & Navigation Solutions

Aerosphere Power & Navigation (APN) provides advanced inertial sensing, navigation, and power conversion technologies for aerospace, defense, and autonomous systems operating in demanding environments.

Our portfolio includes high-performance IMUs and INS solutions, as well as rugged static inverters, frequency converters, and power management systems supporting mission-critical applications across land, sea, air, and space platforms.

Key Markets

Engineered for performance in harsh conditions, Aerosphere Power & Navigation systems support:

- ✓ Aerospace & Aviation
- ✓ Defense & Military
- ✓ Marine & Naval Systems
- ✓ Unmanned Systems
- ✓ Autonomous Systems & Robotics
- ✓ Space & Satellite Systems



Aerospace & Aviation

Advanced inertial navigation systems deliver precise positioning, motion sensing, and attitude control for aircraft and avionics in all flight conditions.



Marine & Naval Systems

Robust inertial navigation systems ensure accurate positioning, heading, and stabilization for vessels operating in dynamic maritime environments.



Defense & Military

High-performance IMU/INS solutions provide reliable, GPS-denied navigation and targeting accuracy for mission-critical defense operations.



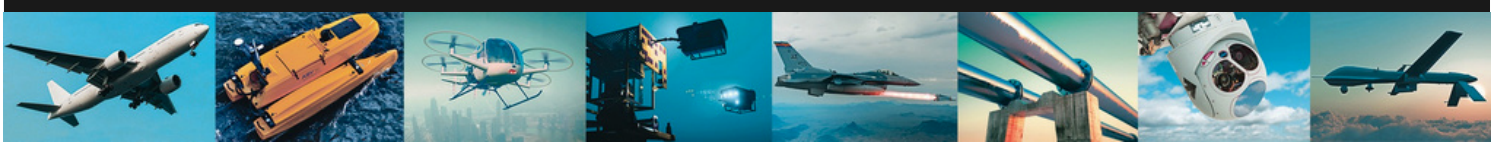
Space & Satellite Systems

Inertial navigation systems provide precise attitude determination and control for satellites and space-based platforms.



PNU / UPNU - with Commercial GPS Receiver

Position and Navigation Unit / Universal Position and Navigation Unit



DATASHEET | MARCH 2026

Where Power Meets Precision



Applications

- Multiple Launch Rocket System (MLRS)
- High-Mobility Artillery Rocket System (HIMARS)
- Pointing and Position Location

Key Performance Features

- High-Performance RLG-34 Ring Laser Gyros
- Common Architecture and Components (Paladin, PIM, Firefinder, IPADS)
- Standard Positioning Service (SPS) GPS Receiver
- Embedded 12-channel Selective Availability Anti-Spoofing Module (SAASM)
- Impervious to Jamming (inertial mode)
- Combat-Proven
- Embedded Built-In Test (BIT)
- High Reliability MTBF, Low Mean Time to Repair (MTTR)
- No Periodic Calibration Required

High-Precision Pointing and Position Location System

Aerosphere Power & Navigation's (APN) Position & Navigation Unit (PNU) and Universal Position and Navigation Unit (UPNU) continue their record of excellence in providing the Multiple Launch Rocket System (MLRS) and High-Mobility Artillery Rocket System (HIMARS) programs with the highest performance, reliability, quality, pointing and position location system capability. Equipped with more than 30 years of direct experience in aiming and navigating these launchers, APN is under contract to deliver the Universal Position / Navigation Unit (UPNU) on HIMARS.

The Improved Fire Control System (IFCS) PNU / Universal Fire Control System (UFCS) UPNU family represents a true state-of-the-art system approach. Its design features permit ready adaptation and/or optimization to any current or future weapon system or sensor requiring precision pointing and positioning. The PNU / UPNU family was conceived and designed to provide significant growth capability in performance and functionality, assuring its ability to meet the U.S. Army's future needs.

The PNU / UPNU and its variants point the way for the future direction of the land navigation systems. Utilizing advanced sensors, electronics, software and aiding (GPS and odometer), the PNU / UPNU family delivers precisely what the Army of tomorrow needs — a system designed to remain operationally effective and affordable to support well into the future.



Use of U.S. DoD visual information does not imply constitute DoD endorsement.

PNU / UPNU - with Commercial GPS Receiver

Position and Navigation Unit / Universal Position and Navigation Unit

Specifications

Performance	
Pointing Accuracy	0.3 + 0.25 secant (latitude) mil Probable Error (PE)
Initialization Time	
Static Align	5 minutes
Accelerated Align	2 minutes
Dynamic Align	Determined by GPS
Roll/Elevation Accuracy	0.17 mil PE, 0.25 mil RMS
Position Accuracy	
GPS-Aided	Determined by GPS No Zero Velocity Updates (ZUPTs) necessary
Odometer-Aided	10 m HCEP, 10 m VPE For ≤ 40 km x cosine (latitude) Distance Traveled (DT) with 10 minute ZUPTs 0.05% x DT x secant (latitude) m HCEP, 0.05% x DT x secant (latitude) m VPE for > 40 km x cosine (latitude) DT with 10 minute ZUPTs 10 m HCEP, 10 m VPE for ≤ 6.7 km DT with no ZUPTs 0.15% x DT m HCEP, 0.15% x DT m VPE for > 6.7 km distance traveled with no ZUPTs
Characteristics	
Weight	74 lb., 34 kg
Dimensions	24.2 in. L x 10.51 in. W x 11.06 in. H 61.5 cm x 26.7 cm x 28.1 cm
Power	90 W, 16 to 36 VDC
Temperature Range (Operating)	-32 °C to +60 °C
Temperature Range (Non-Operating)	-34 °C to +71 °C
Shock	100 g (damped sine)
Environmental	- EMI / EMC-compliant (MIL-STD-461E / 464A) - MIL-STD-810F-compliant - MIL-STD-1275D power input
Interfaces	- RS-232 - Two Odometer/Vehicle Motion Sensor (VMS) pulse inputs - Two GPS RF outputs (for Weapons / Rockets / Missiles) - 10 / 100 Base-T Ethernet data port - Vehicle Motion Sensor (VMS) - GPS Antenna RF Input



More than 1,500 PNUs / UPNUs Fielded and Forward Deployed

Dimensions/Scale



Notes

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For More Information

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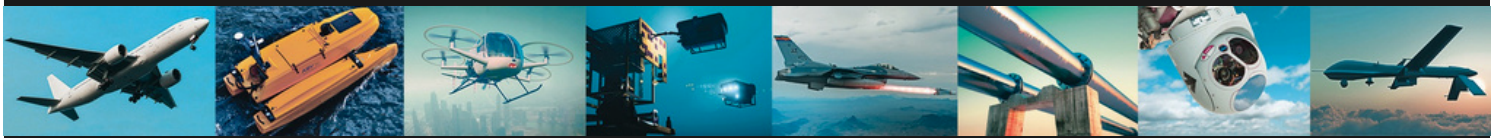
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IPADS-I

Improved Position and Azimuth Determining System - International



DATASHEET | MARCH 2026

Where Power Meets Precision



Applications

Artillery Survey to Mark:

- Survey Control Point (SCP) Position; Used to Initialize Weapon Systems
- Orienting Line (OL) Position and Azimuth; Used to Initialize and Align Artillery Assets

Key Performance Features

- High-Precision Common Survey Enables Efficient Mass Fires
- Impervious to Jamming (inertial mode)
- Embedded Selective Availability Anti-Spoofing Module (SAASM) GPS Option
- Navigation Aids (compass rose and digital maps)
- In-Vehicle and Offset Survey
- Combat-Proven
- Embedded Built-In Test (BIT)
- High-Reliability MTBF, Low Mean Time to Repair (MTTR)
- No Periodic Calibration Required

Inertial Surveying System

When You Need Precision, You Need IPADS

Aerosphere Power & Navigation's (APN) Improved Position and Azimuth Determining System (IPADS-I) is an inertial surveying system developed to meet today's demanding international military survey needs. Survey operations functionality, navigational accuracy, transportability, survivability and affordability requirements drove the system design.

Aerosphere Power & Navigation's IPADS-I (International) provides significant enhancements for today's Army and Marine Corps survey teams. IPADS offers a proven, reliable, lightweight, off-the-shelf solution developed around four main components.

- Compact Position/Navigation Unit (CPNU)
- Control and Display Unit (CDU)
- Battery and Charger Unit (BCU)
- Porro Prism Assembly (PPA)

All components are housed in a robust frame that allows for easy component access and stability, while facilitating a ready two-person live transfer between vehicles.



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IPADS-I

Improved Position and Azimuth Determining System - International

Specifications

Performance	
Inertial Accuracy	
Orienting Line Azimuth	0.6 mil PE (Probable Error), 0° to 65 N/S latitude
Horizontal	7 m CEP (Circular Error Probable)
Vertical	3 m PE 5-min. ZUPT (Zero Velocity Update) Within 63.9 km x cosine (latitude)
GPS-Aided Accuracy (option)	
Orienting Line Azimuth	0.6 mil PE (Probable Error), 0° to 65 N/S latitude
Horizontal	4 m CEP
Vertical	2 m PE No ZUPT necessary
Initialization Time	
Static Align	10 min. 0° to 65° N/S latitude
Hot Start Align	5 min., 0° to 65° N/S latitude
Moving Base Align	15 min (GPS Option)
Characteristics	
Weight	137 lb., 62 kg (Standard configuration) 68 lb., 31 kg (Optional configuration using DRU-H-R, smaller/lighter CDU, and Li-Ion Batteries)
Dimensions	24.75 in. L x 15.75 in. W x 16.125 in. H (Standard configuration) 62.87 cm L x 40.01 cm W x 40.96 cm H 16.9 in. L x 8.9 in. W x 10.8 in. H (Optional config using DRU-H-R, alternate CDU, and Li-Ion Batteries) 43.0 cm L x 22.5 cm W x 27.5 cm H
Power Steady-State Voltage Options	5.36 A @ 28 VDC (150 W) 9 to 36 VDC or 85 to 270 VAC
Interfaces	- One 10/100-BaseT Ethernet (Reprogramming port) - One optional/unused RS-232 port - One optional/unused RS-422 port - Six optional/unused USB 2.0 ports
Optional Interfaces	For GPS Option: - GPS Antenna RF Input - Cryptographic key fill data port - One RS-422 Asynchronous data port for external Defense Advanced GPS Receiver (DAGR)
Environments	- Nuclear, Biological & Chemical (NBC) survivability - EMI/EMC-compliant (MIL-STD-461E/464A) - MIL-STD-810F-compliant - MIL-STD-1275D power input

Compact Position/Navigation Unit (CPNU)

The CPNU, a three-axis strap-down inertial navigation system of ring laser gyros and high-grade accelerometers, is the core component of IPADS. It is the compact version of our proven navigation system used on the Multiple Launch Rocket System (MLRS) and High-Mobility Artillery Rocket System (HIMARS) programs.

An embedded SAASM GPS receiver is available as an option in the CPNU (IPADS-G).

Control And Display Unit (CDU)

The CDU is a ruggedized tablet computer featuring an Intel Dual Core i7 @ 1.7 GHz, Windows® 10, 16 GB Main RAM, Two 480 GB Solid-State Drives (SSD), and a 10.4- inch XGA touch-screen color display.

Porro Prism Assembly (PPA)

The PPA in conjunction with customer-supplied Theodolite, provides 24-meter offset survey capability. This allows surveying locations that are inaccessible by vehicle. Offset distance may be extended using optional accessories such as a handheld laser rangefinder mounted on existing manual Theodolite or using automated total stations.

Battery And Charger Unit (BCU)

The BCU uses a standard military NSN 6130-01-493-6643 Sealed Lead Acid (SLA) battery. The BCU is based on the ABPAC.DC/BT-TR-1 Transceiver Power Unit (TPU) that is currently fielded by the U.S. military. The unit allows for worldwide input of 9 to 36 VDC / 85 to 270 VAC, 47 to 440 Hz single-phase power inputs and provides power and charge status indicators.

Notes

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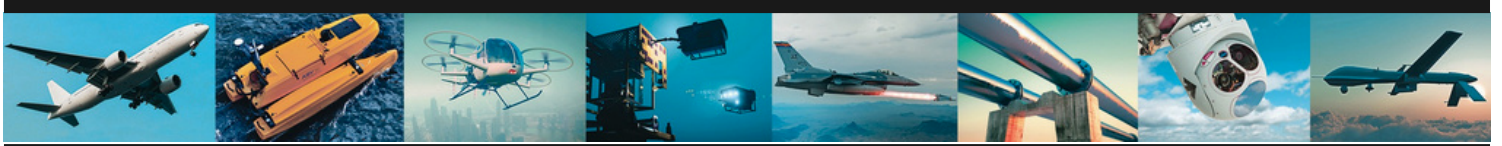
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DRU-H-R

Dynamic Reference Unit - Hybrid Replacement



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Where Power Meets Precision



Applications

- Currently used on Paladin (M109A6 and M109A7), Firefinder (AN/TPQ-36 and AN/TPQ-37) and Long-Range Air Surveillance Radar (AN/TPS-59)
- Pointing and Position Information for Soldiers
- Direct and Indirect Fires, Counterfire and Air-Surveillance Radar Operations
- Manned, Unmanned, Rotational Platforms, Wheeled and Tracked Vehicles, Extreme Gunfire Shock, Battlefield and Shipboard Environments

Key Performance Features

- High-Performance RL34 Ring Laser Gyros
- Common Architecture and Components (MLRS, HIMARS, IPADS)
- GPS-aided Using Customer-provided Defense Advanced GPS Receiver (DAGR) or Optional Embedded SAASM
- Impervious to Jamming (inertial mode) Resistant to Jamming (GPS-aided mode)
- Combat-Proven Heritage; Fully Qualified/ U.S. Government Tested
- Embedded Built-In Test (BIT)
- High-Reliability MTBF, Low Mean Time to Repair (MTTR)

High-Precision Pointing and Location System

Aerosphere Power & Navigation's (APN) Dynamic Reference Unit Hybrid Replacement (DRU-H-R) continues its record of excellence in providing precision pointing and location to our warfighters. Partnered with the U.S. Army, APN's combat-proven precision product family delivers mission-critical information such as survey, pointing and position to our soldiers for precise, indirect mass fires and counter-fire operations.

The DRU-H-R has growth capacity to add an embedded Selective Availability Anti-Spoofing Module (SAASM) GPS with M-code capability. It can also be configured to function in unmanned, rotational and shipboard environments.

The DRU-H-R is an advanced precision navigation system that provides platform (or weapon) position and attitude data. This unit replaced the DRU-H on Paladin and Firefinder, both playing critical roles in supporting U.S. ground forces in all phases of active combat operations. The APN DRU-H-R design upgraded system performance by using high accuracy, combat proven inertial sensors currently fielded on the Multiple Launch Rocket System (MLRS), High-Mobility Artillery Rocket System (HIMARS), and Improved Position and Azimuth Determining System (IPADS).

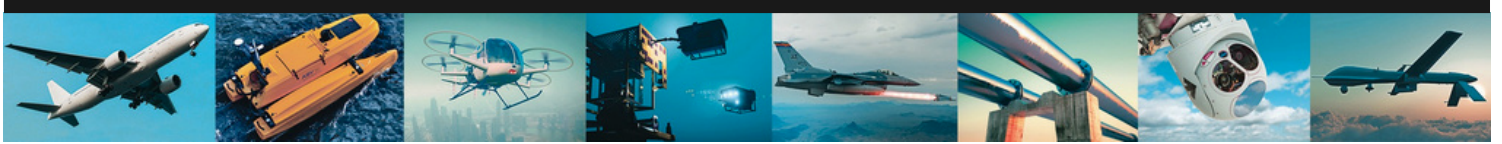
The DRU-H-R delivers precisely what the Army of tomorrow needs — a sustainable, affordable system designed to remain operationally effective well into the future.



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CIRUS-A

High-Performance FOG Inertial Measurement Unit (IMU)



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Where Power Meets Precision



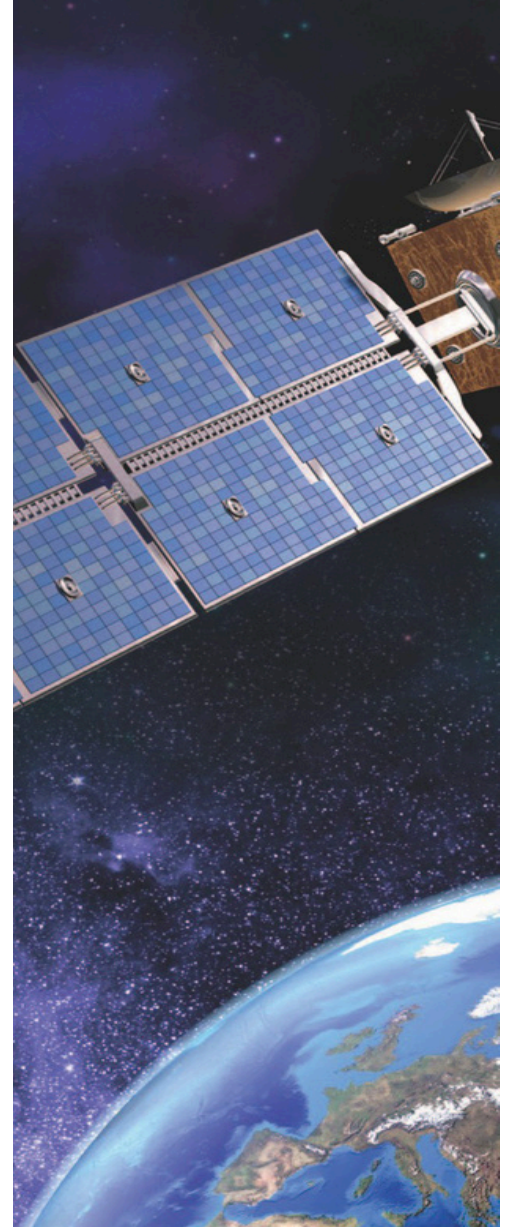
Applications

- Platform Stabilization
- Pointing Applications
- Missile Guidance Systems
- Vehicle/Platform Navigation
- Northfinder Applications

Strategic-Grade Fiber Optic Gyro (FOG) IMU

Aerosphere Power & Navigation's CIRUS-A is a high-performance Fiber Optic Gyro (FOG) Inertial Measurement Unit (IMU) that delivers state-of-the-art, strategic-grade performance for inertial navigation, guidance, pointing and stabilization for missile, space, sensor, ground, air, and marine applications. It leverages a long legacy of over 60 years of design, development, and production of inertial components and navigation systems for Space and Defense applications.

The CIRUS-A high-performance FOG IMU design simplifies the optical circuit design, reducing the number of components while providing a significant performance improvement over standard military environments. We have produced and delivered many FOG-based products with strategic-grade performance for a variety of applications.



CIRUS-A

High-Performance FOG Inertial Measurement Unit (IMU)

Specifications

Performance		CIRUS-A
Gyro Performance		
Bias Stability (1σ)		0.0001 °/hr.
Angle Random Walk		0.0005 °/√hr.
Scale Factor Stability		± 2 ppm
Scale Factor Linearity		10 ppm
Angular Rate Range		> 45 °/sec
Acceleration Range		± 8 °/sec2
Accelerometer Performance		
Range		60 g
Bias		160 µg
Scale Factor Stability		300 ppm
System Performance		
Bandwidth Operating		> 500 Hz
Life		10 yrs. (1,400 hr. operational/yr.)
Characteristics		
Interface		Custom Serial Interface
Physical		
Weight		18 lb., 8.165 kg
Dimensions		11.9 in. L x 11.1 in. W x 5.9 in. H 30.23 cm L x 28.2 cm W x 15 cm H
Power		10 W @ 28 VDC
Environmental		
Temperature Range		
Operational		-40 °C to 40 °C
Non-Operational		-40 °C to 40 °C
Random Vibration		0.1 grm
Humidity		95% @ 40 °C for 6 hr.

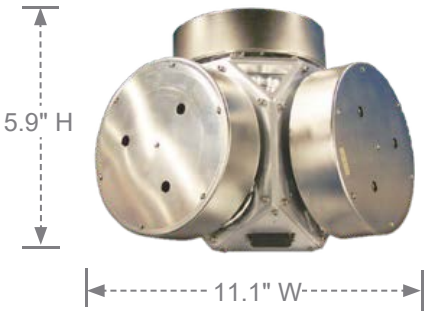
Notes

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The CIRUS-A IMU's performance enhances all EO/IR platforms ability to identify and defeat threats from the air and on the ground.

Dimensions/Scale



For More Information

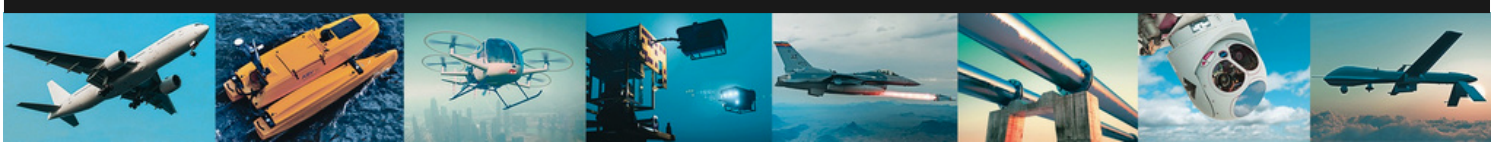
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CIRUS & CIRUS-EX

Compact Inertial Reference Unit (IRU) for Space



DATASHEET | MARCH 2026

Where Power Meets Precision



Applications

- Spacecraft Attitude Control Platform
- Stabilization Pointing Applications
- Missile Guidance Systems
- Vehicle/Platform navigation
- Northfinder Applications

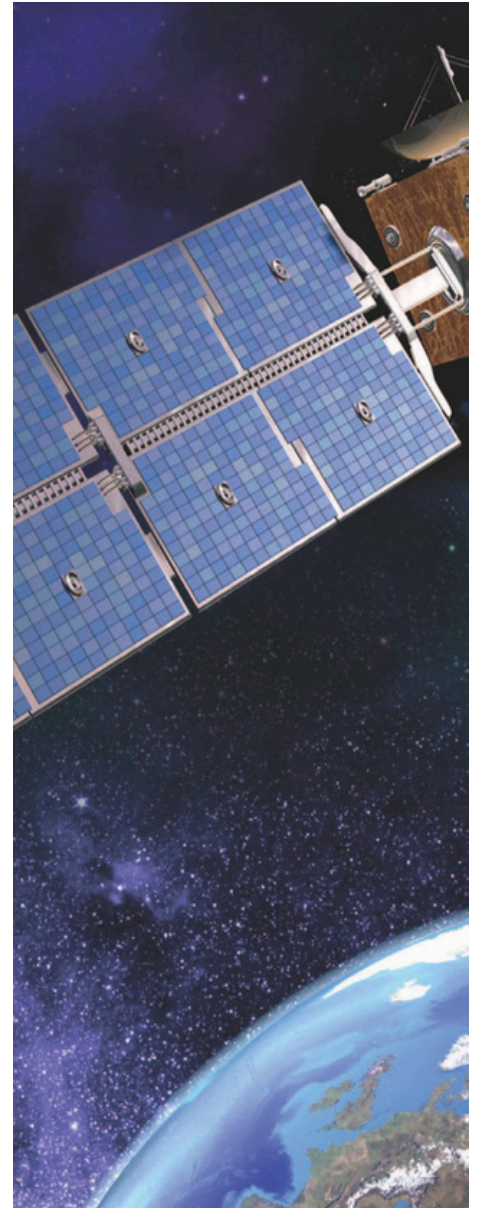
Key Performance Features

- Two Performance Grades with Lowest ARW $<100 \mu^\circ/\sqrt{\text{hr}}$
- Four Gyros and Dual A/B Electronics Provide Optimal Redundancy for Enhanced Mission Success
- Dual-Redundant Serial Interfaces (MIL-STD-1553 and RS-422) to permit Flexible I/O Rates
- High-Reliability Class S and Class K Rad-Hard Electronics
- Each Sensor is Individually Power-Selectable Providing Ultimate Flexibility for the End User
- User-Selectable Thermal Set Points Permit Optimal Operation over Changing Mission Environments
- User-Selectable Capability to Execute "On-Station" Commands for Optimal Situational Awareness
- Conductive or Radiative Vehicle- Mount Options
- Telemetry Format can be Customized for any Specific User Interface

Cost-Effective, Next-Generation, Strategic-Grade Fiber Optic Gyros

Leveraging over sixty years of experience and proven performance in systems deployed in space, Aerosphere Power & Navigation's Compact Inertial Reference Unit for Space (CIRUS) is designed and qualified as the next-generation product of our heritage system. The CIRUS and CIRUS-EX rate sensors deliver two different strategic grades of performance combined with the benefits of a compact, low-cost system in an integral chassis.

Both CIRUS and CIRUS-EX systems feature four Fiber Optic Gyro (FOG) sensors in a fully redundant configuration for spacecraft attitude control, supporting DoD, NASA and commercial missions. The CIRUS and CIRUS-EX are our next generation of IRUs that build on our legacy as the premier supplier of mission-critical precision pointing and navigation systems since the early days of the U.S. space program.



CIRUS & CIRUS-EX

Compact Inertial Reference Unit (IRU) for Space

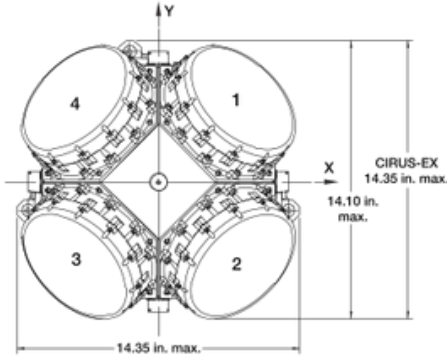
Specifications

PARAMETER	CIRUS	CIRUS-EX
System Performance		
Bias Stability (1σ) Angle	0.0003 °/hr.	0.0003 °/hr.
Random Walk (EOL)	0.000190 °/√hr. (0.000150 available)	0.000125 °/√hr. (< 0.000100 available)
Angle White Noise	0.000025 arc-sec./√Hz (0.000006 typical)	0.000025 arc-sec./√Hz (0.000006 typical)
Angular Rate Range	> 30 °/sec.	> 22 °/sec.
SF Stability	±2 ppm	±2 ppm
SF Linearity	35 ppm (3 typical)	35 ppm (3 typical)
(Maximum)	< 3.5 arc-sec. (long term)	< 3.5 arc-sec. (long term)
Alignment Stability	< 20 arc-sec. (life)	< 20 arc-sec. (life)
Characteristics		
Weight	34.0 lb., 15.4 kg	37.0 lb., 16.8 kg
Dimensions (Fits within cylinder)	Ø 14.10 in. (max) x 8.55 in. (max) Ø 400.1 mm x 217.2 mm	Ø 14.35 in. (max) x 8.75 in (max) Ø 421.6 mm x 223.5 mm
Power	28 VDC input, steady-state, 3 gyros operational ≤ 40 W	
Reliability (30 °C)	> 0.93 Probability of success (Ps) for 15-year life, continuous operation	
Telemetry	RS-422, MIL-STD-1553; FPGA-based interface can be modified without hardware change to meet customer-specific requirements	
Operational Temperature	-23 °C to +41 °C, with > 14 °C temperature variations	
Random Vibration	9.45 grms lateral and normal	
Radiation	> 100 krad total dose SEU-tolerant Latchup immune	

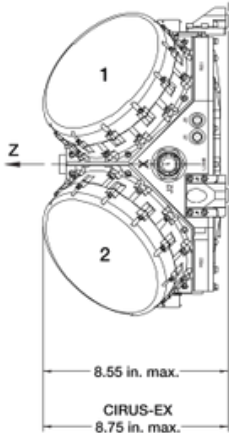
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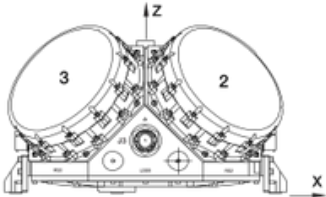
Top View



Right View



Front View



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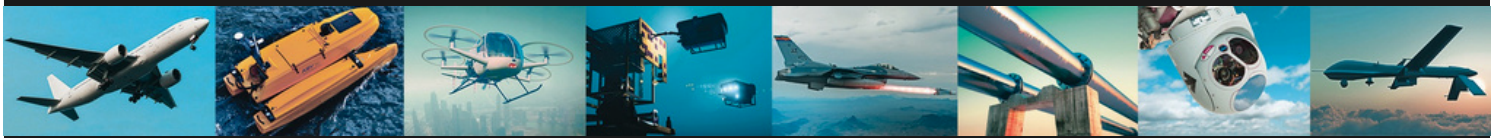
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SUPER-TAC

Super-Tactical (TAC) Inertial Measurement Unit (IMU)



DATASHEET | APRIL 2026

Where Power Meets Precision



Overview

The Aerosphere Power & Navigation Super-Tac IMU offers the highest bias stability and angle random walk available in tactical-grade inertial measurement and is designed to be used in Avionic, Missile, Ground, Marine applications. The following is a representative list of system applications:

Key Performance Features

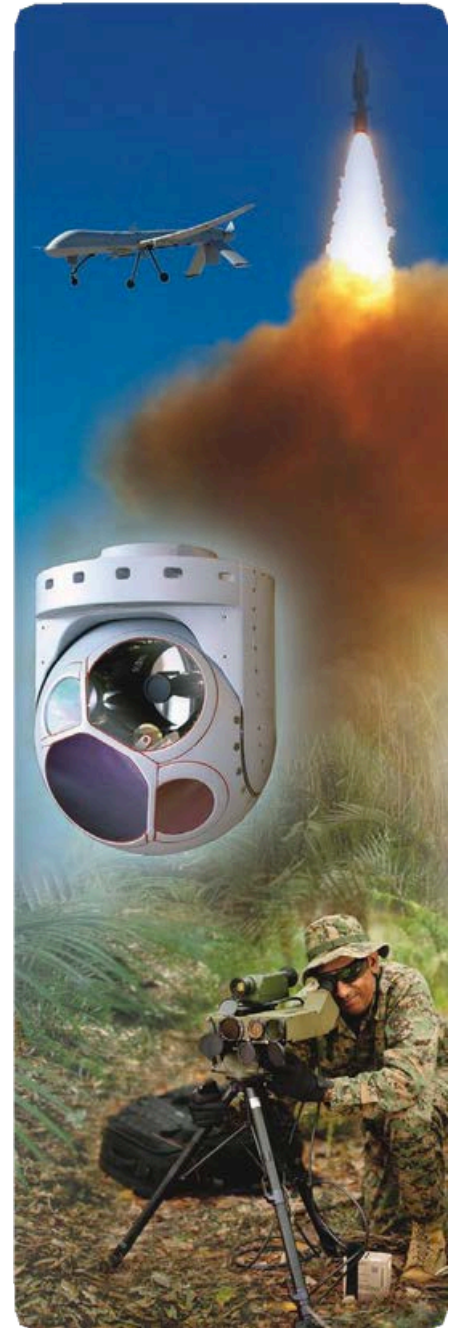
- Electro-optical / FLIR / Camera/Radar / Laser Pointing / Stabilization
- Guidance / Navigation
- Attitude and Heading Reference System (AHRS)
- Target Location Systems
- Motion Compensation
- Autonomous Vehicle
- GNSS-aiding
- Mapping / Surveying
- UAV / UUV Flight Controls

Description

The Super-TAC IMU integrates three fiber optic gyros that exceed tactical grade performance with three high-accuracy Micro-Electro-Mechanical Systems (MEMS) accelerometers and state-of-the-art support electronics in a single small, lightweight package. This solution addresses the need for superior inertial performance in a tactical-grade package, critical for operation in GPS denied and contested environments.

The Super-TAC IMU measures change in velocity and angle, utilizing a configurable variable synchronous data link control (SDLC) digital serial bus. The Super-TAC is configured to offer customers the best value solution when designing new systems as well as provide the flexibility to upgrade existing platforms.

The Super-TAC IMU employs state-of-the-art optics with fewer components, providing significant performance and reliability improvements across standard military environments.



SUPER-TAC

Super-Tactical (TAC) Inertial Measurement Unit (IMU)

PERFORMANCE

GYRO PERFORMANCE	
Bias Stability	< 0.05 °/hr. (1σ)
Angle Random Walk (ARW)	≤ 0.01 °/√hr. (1σ)
Scale Factor Repeatability	≤ 100 ppm (1σ)
Scale Factor Linearity	≤ 50 ppm (1σ)
Angular Rate Range	1,000 °/sec
Acceleration Range	100,000 °/sec ²
ACCELEROMETER PERFORMANCE	
Range	± 25 g
Bias Variation	≤ 50 µg (1σ)
Scale Factor Stability	≤ 300 ppm (1σ)
SYSTEM PERFORMANCE	
Bandwidth (adjustable)	800 Hz (gyros) 150 Hz (accelerometers)
MTBF	>25,000 hr.

The Aerosphere Power & Navigation Super-TAC IMU delivers elite tactical-grade performance in a compact, rugged package built for avionic, missile, ground, and marine applications. Featuring advanced fiber optic gyro technology paired with precision MEMS accelerometers, it provides exceptional accuracy and reliability—even in GPS-denied environments. With a flexible digital interface and streamlined design, Super-TAC empowers next-generation systems while enabling seamless upgrades to existing platforms.



CHARACTERISTICS

Interface	RS-422 Synchronous Data Link Control (SDLC) Gigabit Ethernet optional
Power	10 W
Input Voltage	+5 VDC, ±15 VDC

PHYSICAL	
Weight	< 1.65 lb. (< 750 gm)
Dimensions (not including connector)	3.52 in. diam. x 3.35 in. H 89.4 mm diam. x 85.1 mm H

ENVIRONMENTAL	
Temperature Range	-55 °C to 71 °C (continuous operation)
Random Vibration	15 grms
Shock	90 g, 6 ms terminal sawtooth
Humidity	+60 °C 95% relative humidity

Notes

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For More Information

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