

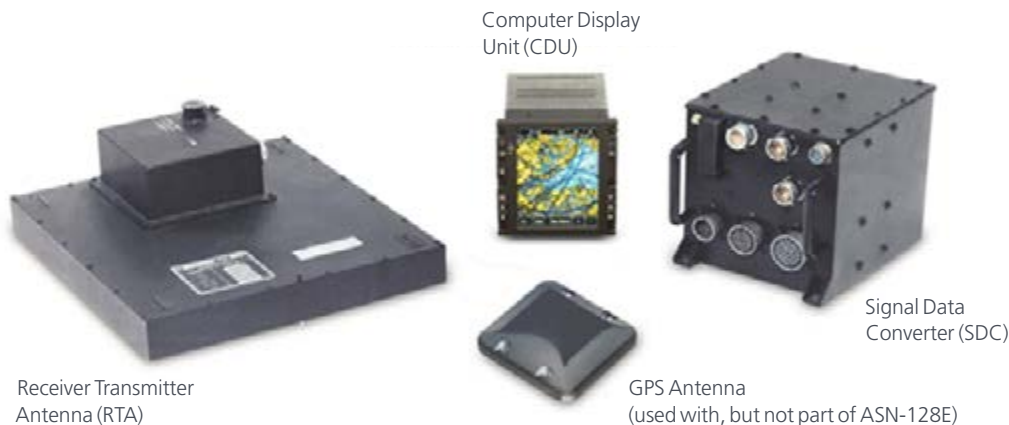
Doppler/GPS navigation set

AN/ASN-128E

Integrated GPS and Doppler navigation and guidance for uninterrupted performance

The **AN/ASN-128E** Doppler/GPS navigation set provides the complementary advantages of a Global Positioning System (GPS) receiver and a self-contained Doppler navigation system. With a one-card SPS/PPS SAASM GPS receiver embedded in the signal data converter and a computer display unit (CDU) with a touch screen keyboard, aircraft modifications and installation are reduced. Weight, size, and cost are also reduced with the use of a microstrip receiver-transmitter antenna.

The tactical GPS landing mode provides 3D guidance to a selected fly to waypoint. Flight plans containing user and Digital Aeronautical Flight Information File (DAFIF) waypoints, departure, approach, initial procedures, and vertical obstruction data overlaid on various moving map types provide guidance and update via USB. Used in the most demanding environments, the AN/ASN-128E provides a full-size moving map touchscreen display, easily readable in sunlight and under night vision goggles. Combat-proven, this system provides a war-fighting edge.



Features and benefits

- Accurate hover velocities regardless of operation time or distance traveled.
- Combined GPS and Doppler sensors provide accurate guidance in environments with intentional and unintentional interference.
- Precise and standard positioning service modes for operation in military (tactical) and national Federal Aviation Administration (FAA) airspace.
- Two level maintenance consists of no flight line test equipment and high reliability reduces maintenance cycle time and cost.
- Simple operation including autonomous point-to-point navigation reduces pilot workload.
- Built-in test isolation to a function on a circuit card simplifies maintenance.
- Doppler aiding and barometric pressure (optional) improves GPS tracking in a jamming environment and reduces reacquisition time.
- GPS includes receiver autonomous integrity monitoring and fault detection and exclusion for reliable GPS data.
- Operational software updates via USB enable future advancements.

Specifications

Physical characteristics	Weight	Volume*	Power
RTA	11.0 lb	383 in ³	12.0W
Hat		90 in ³	
SDC	14.0 lb	564 in ³	56.6W
CDU	7.5 lb	252 in ³	30.0W
Total	32.5 lb	1,289 in³	98.6W
GPS Antenna	0.6 lb	14 in ³	1.0W

Product dimensions	Length*	Width	Height
RTA	14.56 in	13.48 in	1.95 in
Hat	5.58 in	5.58 in	2.91 in
SDC	9.56 in	7.56 in	7.81 in
CDU	7.29 in	5.75 in	6.00 in
GPS Antenna	4.00 in	4.00 in	0.93 in

*Measurements in length and volume do not include handles, connectors, and knobs.

For more information contact:

BAE Systems
164 Totowa Road
Wayne, NJ 07474

T: 973 633 6000
W: [baesystems.com/securecomms](https://www.baesystems.com/securecomms)

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