

NexNav™

mini-T

GNSS SENSOR TECHNOLOGY



accord technology llc
location... location... location...



NexNav is the most advanced and key enabling technology to a host of safety enhancing, cost saving operations.

- ☒ Primary means of navigation
- ☒ Enroute, Terminal, LNAV approaches
- ☒ Airborne spacing assurance
- ☒ Airborne Collision Avoidance (Non-TCAS System)
- ☒ Constant descent approaches
- ☒ Surface area movement management
- ☒ Current & advanced TAWS
- ☒ Advanced ATM
- ☒ ADS-B

DO 229D Compliant GNSSU GNSS/GPS SBAS/WAAS TSO-C145c Class Beta 1 Receiver

Whether it's a need for providing reliable guidance or interfacing with an ADS-B transponder the NexNav™ min provides the most advanced GNSS capability.

Designed around our compact NexNav mini CCA, the NexNav GNSSU LRU is easily integrated as a key part of your mission critical system solution today and ready for newly emerging applications such as Automatic Dependent Surveillance, advance navigation and flight management.

Retrofit installations are facilitated as NexNav is designed as the replacement for current non-ARINC form factor GNSSUs, but with a very important difference. GPS-SBAS receiver certified by FAA for TSO-C145c Class Beta-1 operation.

NexNav has the next generation solution today.

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PERFORMANCE CHARACTERISTICS

Conformity	
RTCA	DO-229D, DO-301, DO-228, DO-178B, DO-254, DO-160E
FAA	TSO-C145c, Class Beta 1

Performance	
General	GPS C/A code Sensor card with SBAS capability
Number of channels	12 GPS and 3 SBAS
Hor. Position Accuracy ¹	5 m, RMS
Differential Position Accuracy ¹	3 m, RMS
Vertical Position Accuracy ¹	7 m, RMS
Velocity Accuracy ¹	0.1 m/s, RMS
Time Accuracy ¹	30 ns, RMS
Update rate	5Hz

Sensitivity	
GPS Tracking	-145 dBm

Other Features	
ADS-B Support	Available, as per DO-229D Appendix U
Altitude Aiding	Pressure and baro altitude aiding per DO-229D
Approach capability	LNAV approach

ENVIRONMENTAL CHARACTERISTICS

Temperature	-50° to 70°C
Altitude	60,000 ft (18,200 m)

Dynamics	
Speed, Acceleration and Jerk	Per DO-229D requirements for en-route, terminal and LNAV approach.

Integrity	
RAIM	SBAS integrity incorporated
FD/FDE	FD/FDE incorporated
Alert	Software alert per DO-229D
BITE	Comprehensive power-on and online self-tests

Design Assurance	
Hardware	Per DO-254, Level C
Software	Per DO-178B, Level C

Interfaces	
Host interface 2 each	RS-232 ports
Time mark	RS-422
Messages	Proprietary messages, NMEA 0183
Upgrades	Software upgrades through serial port

ELECTRICAL CHARACTERISTICS

Power Input	14 Vdc - 28 Vdc
Power	3.0 W

PHYSICAL CHARACTERISTICS

Dimension	4.13" x 6.5" x 1.6" (105 x 165 x 40.6) mm
Weight	17 oz. (480 gms)
RF Connector	SMA RF connector, Socket
I/O Connector	25 pin sub-D, Header

¹ Typical values at 1 Hz and nominal signal strength. Performance specifications are subject to GPS system characteristics, U. S. DOD operational degradation, ionospheric and tropospheric conditions, satellite geometry, and multipath effects. Assumes SA Off.