

GPS 2000



GPS Receiver with integrated Display & Keyboard. Stand alone system for use on Jeeps, Trucks etc.

FEATURES

- Operating on Navstar Satellites Constellation for GPS
- LCD graphic display with software controlled backlight
- Position in IGRS or Latitude/Longitude
- Altitude in Meters or Feet
- Distance in Km, Nm, or Miles
- Speed in Kph, Mph or Knots
- Creation and storage of upto 250 way points, 26 Routes with 20 way points per route
- Creation of way points in terms of Range and Bearing w.r.t current position or any way point
- Storing of current position as a way point
- Icon to identify way points
- Data stored in (NV) Flash memories
- Data transfer between Receiver, PC and Data exchanger
- Display of Range & Bearing of selected way point, w.r.t current position
- Displays 20 nearest way point w.r.t. current position
- Arrival and fault alarm indication
- Remote Programming for NMEA and unit selection
- **Navigation Features**
 - Route Navigation and Direct to Navigation
 - Simulation of route and Direct to Navigation
 - Graphical Course Deviation Indicator (CDI)
 - Estimated Time of Arrival (ETA)
 - Estimated Time Enroute (ETE)
 - Cross Track Error (XTE)
- Selectable Datum
- Manual or auto leg switch over
- Rugged and robust for military applications

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SPECIFICATIONS

Receiver	Multi channel (8 or higher) L1, Frequency, C/A Code, Tracks all satellites in view
Accuracy	30m without SA; 100m with SA Velocity : 0.5m/s
Acquisition time	About 60 seconds with warm start About 7 minutes with cold start
Position update rate	Once per second
Timing	1PPS with $\pm 1\mu$ sec
Display	128 x 64 pixel graphic LCD display
Keyboard	8 illuminated membrane Keys
Input Power	12 to 36V DC (<15W)
Protection	Reverse polarity protection provided
Interface	1 x RS 232C Port
Output	NMEA 0183 (With Remote programming through Remote Programming Software)
Antenna	
Type	Micro strip patch antenna with pre-amplifier
Polarisation	Right hand circular
Frequency	1575 \pm 10MHz
Gain	26 dB
Enclosure	Aluminium alloy
Size	140 x 145 x 67 mm (Without mounting bracket) 190 x 170 x 67 mm (With mounting bracket & connector projections)
Weight	<1.5 Kg
Operating temperature	-20°C to +70°C
Storage	- 40°C to + 85°C
Humidity	95% RH@40°C
Environmental	Designed to meet JSS 55555 requirements
EMI/EMC	Hardened as per MIL-STD-461C

AEROSPACE SYSTEMS PRIVATE LIMITED

"PRAGATHI", 70/1 MILLER ROAD
BANGALORE - 560 052, INDIA.
Tel : +91 (80) 225 8376, 225 6342
Fax : +91 (80) 220 3350
Email: aslmktg@blr.vsnl.net.in
Website: www.aslgps.com, www.asllabs.com

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