

NAVLAN-IG3

IRNSS+GPS+GLONASS+GAGAN Receiver with LAN Interface



Product Description

NAVLAN-IG3 is a Multi Constellation GNSS receiver that supports GPS L1, GLONASS L1, GAGAN L1 and IRNSS L5 Signals. The product is built on Accord's indigenous GNSS receiver and is suitable for Avionics and Defense Navigation applications.

The device comes with a circular connector that provides Power and IO interface to it.

The unit can support two I/O interface connections concurrently. It supports 100Mbps LAN/RS-232/RS-422/USB interfaces for host communication.

The front panel has indications for Power, Position fix and link connectivity.

Features

- ◆ Indigenous IRNSS+GPS+GLONASS+GAGAN Receiver
- ◆ 1 PPS and RS232/RS422 & USB outputs
- ◆ Ethernet interface connects device through TCP/IP or UDP/IP data path
- ◆ USB 2.0 interface
- ◆ NMEA0183 Rev 4.10 messages
- ◆ Rugged IP65 qualified unit



Specifications for NAVLAN-IG3

Performance	
Signals	GPS L1, GLONASS L1, IRNSS L5, GAGAN
Cold Start TTFF ²	55 seconds (Typical)
Positioning Modes	Multi GNSS: GPS + GLONASS + IRNSS + SBAS Single GNSS: GPS / GLONASS / IRNSS Differential: GPS + GAGAN
Horizontal position Accuracy	Multi-GNSS: 5m (CEP) Differential (GPS+SBAS): 2.5m (CEP)
Speed Accuracy	0.2 m/s (RMS)
Position Update Rate	1 Hz (5Hz optional)
Speed and Altitude	515 m/s Max., -1,000m to +18,000m
Acceleration and Jerk	2g, 4m/s ³

Electrical Data	
Supply Voltage	9VDC to 36VDC
Power consumption	250mA @ 12V
Antenna Supply Output	5V, 100mA

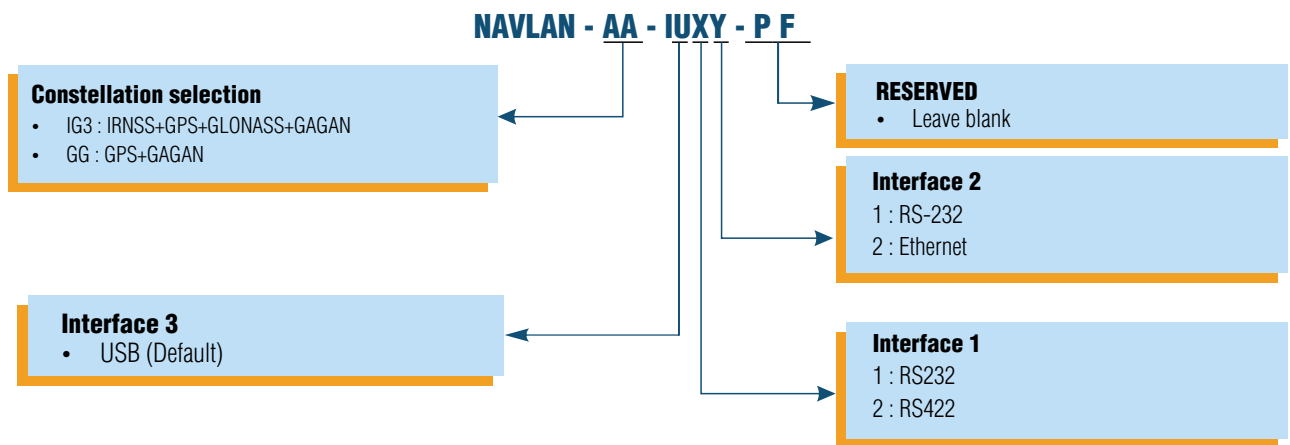
Physical	
Weight	500 g
Dimensions	105mm x 115mm x 42.1mm (L x W x H)
Chassis	Aluminum Alloy
Installation	Flange mount

I/O Interface	
GNSS RF Input	SMA female, Supports active antenna
Ethernet	•10Base-T/100Base-TX •Protocols: TCP/IP, UDP, TELNET, DHCP, HTTP
1 PPS	•3.3V/5V Logic Signal •Load: 50 k Ω nominal
Serial Interface	RS-232 / RS-422 / USB 2.0, Type Mini-B 9600 to 115200 bps
Messages	Output: NMEA 0183 Version 4.10 sentences, ToD (Optional) Inputs: ASCII Receiver Commands

Environmental	
Operating Temperature	-40° C to +70° C
Storage Temperature	-40° C to +85° C
Ingress Protection	IP65

Optical Accessories	
Power	AC/DC adapter (230VAC input/12V output)
Antenna	Active antenna, 15m cable SMA male connector

Ordering Information



Example : NAVLAN –IG3- IU12 : NAVLAN-IG3 receiver configuration with USB, RS-232 and one Ethernet interface.

