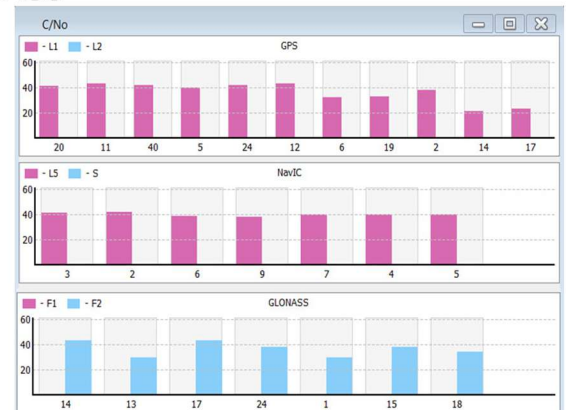


NAVIC DRONE NAVIGATION UNIT



Features:

- Supports multi-GNSS: NavIC (IRNSS), GPS, GLONASS
- Uses SBAS: GAGAN
- Has more than 128 channels
- Ultra-low power consumption
- Faster TTFF and Cold Start
- No loss of fix due to momentary loss of power
- Tiny form factor and weighs less than 70 grams
- Enables easy retrofitment without altering existing infrastructure



Note: This specification applies to Industrial-grade product.
MIL-grade product can also be provided.

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ISO 9001:2015 Certified Company

TECHNICAL SPECIFICATIONS of NAVIC DRONE NAVIGATION UNIT

Ser No	PARAMETERS	SPECIFICATIONS
1.	GNSS	<ul style="list-style-type: none"> • NavIC (IRNSS) L5 • GPS L1 • GLONASS L1
2.	SBAS	GAGAN
3.	Channels	Supports more than 128 channels
4.	Update Rate	1 Hz default, up to 10 Hz
5.	Sensitivity	
	Cold Start	-153 dBm
	Tracking	-163 dBm
6.	Acquisition Time	
	TTFF (Time to First Fix)	< 40 s
	Cold Start (open sky)	< 25 s
	Hot Start (open sky)	1 to 2 s
7.	Position Accuracy	
	Horizontal	1 m CEP
	Vertical	3 m CEP
8.	Baud Rate	115200 (default) Can be configured to any baud rate
9.	Max. Altitude	< 18,000 m
10.	Max. Velocity	< 500 m/s
11.	Protocol Support	NMEA 0183 ver: 4.1
12.	Supply Input Voltage	5.0 V DC
13.	Temperature	
	Operating	-10 °C to +50 °C
	Storage	-20 °C to +60 °C
14.	Form Factor	Tiny form factor compared to existing navigation units
15.	Dimension	L x W x H: 64.2 mm x 64.2 mm x 19.6 mm
16.	Weight	68 grams
17.	PCB Specifications	Double-sided, 1.6 mm thickness
18.	EMI/EMC Protection	Core circuit is shielded

COMPARISON

Parameter	ELNDNU _{xxx}	Others
GNSS	All GNSS Open Services: NavIC (IRNSS), GPS, GLONASS	GPS, GLONASS
Channels	More than 128 channels	40 to 60 channels
Time to First Fix	Less than 40 s	More than 60 s
Position Accuracy	CEP: Less than 1 m	CEP: More than 5 m
Supports all satellite augmentation systems	Yes	No
Easy to integrate	Yes	No