

axl Orbit

A high-accuracy multi-GNSS receiver designed to deliver reliable positioning and precise navigation for drones, autonomous systems, and other mission-critical applications.

Features

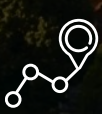
- Supports GPS, GLONASS, Galileo, QZSS , SBAS
- Integrated high-accuracy compass for precise heading and orientation.
- 5 Hz navigation update rate with four concurrent GNSS receptions
- Rechargeable Backup Battery for faster satellite lock
- Compact and lightweight for seamless integration



Capabilities

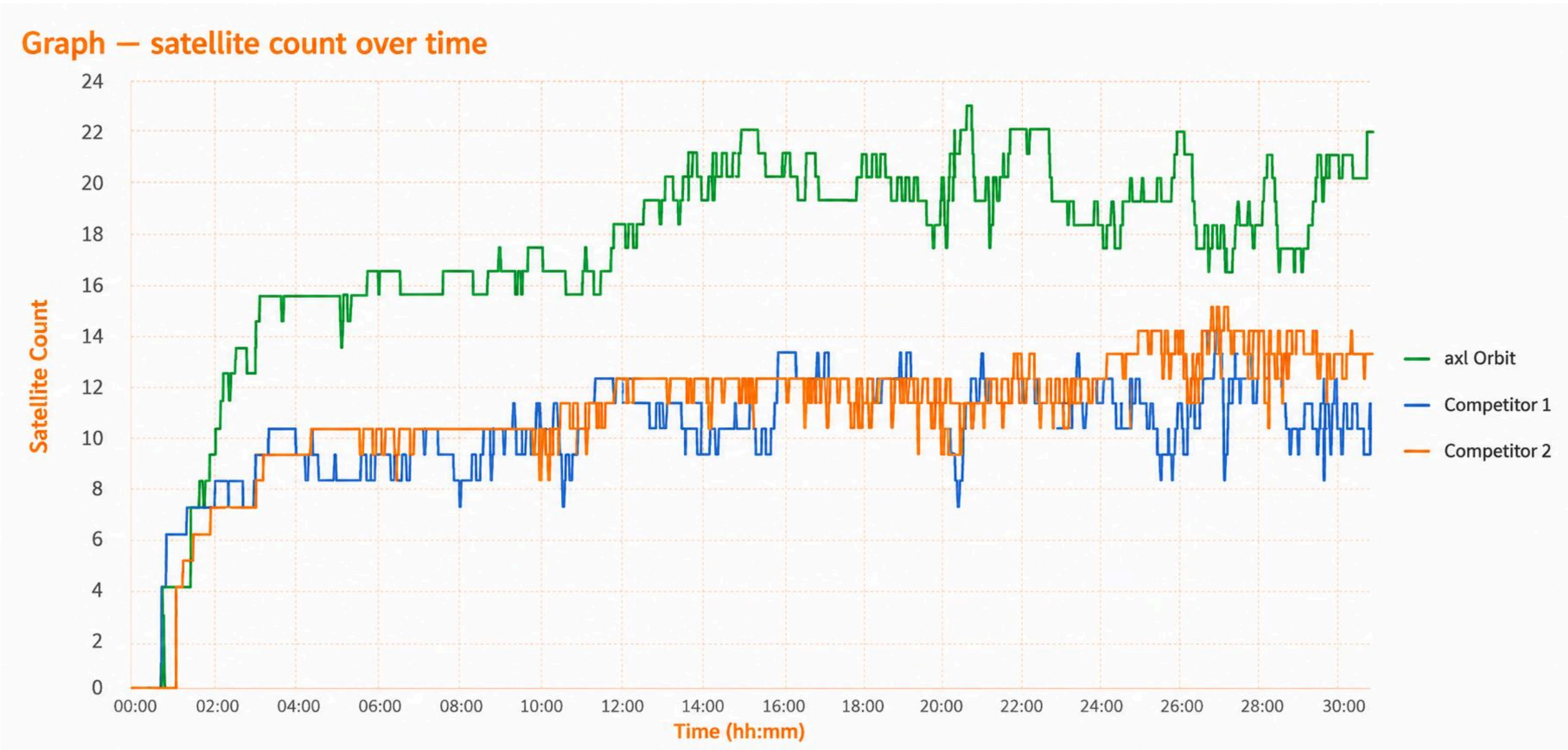
- 1.5 m Positioning Accuracy
- Up to 32 satellite connectivity
- RF interference and jamming detection/reporting support
- Spoofing detection and reporting support
- Faster GPS lock

Applications

-  Drones & Surveillance Systems
-  Marine Vessel Tracking and Communications
-  Vehicle Fleet Management
-  Autonomous Rovers Navigation and Tracking
-  Automotive Navigation and Tracking

Specifications

GNSS System	GPS, GLONASS, Galileo, QZSS , SBAS
Frequency Bands	Single band L1
Navigation Update Rate	5 Hz
Horizontal Accuracy	1.5 m CEP
Heading Accuracy	0.3°
Maximum Altitude	80,000 m
Maximum Velocity	500 m/s
Time to Fix	Cold Start: 23 sec
Time Pulse Accuracy	30 ns (RMS)
Supporting Protocols	NMEA, UBX
Default Baud Rate	9600 Configurable
Dimensions	52mm x 49mm x 17.15mm (L × W × H)
Cable Length	16.5 cm (Customisable)
Weight	~ 26 g



Headquarters and R&D Center

Digital Hub, Kerala Technology Innovation Zone, Kinfra Hi-Tech Park, Kalamassery, Kochi, Kerala 683503
Ph: +91 949 771 7654
Email: info@axldrone.com

Manufacturing Unit

Kannambra, Palakkad, Kerala, India - 678686,
Ph: +91 949 771 7654

Global R&D and Export

C5, UL Cyberpark, SEZ, Calicut, Kerala, India - 673016
Ph: +91 495 297 3774

Global Sales and Support

1441 Broadway, #5, New York, NY 10018, USA

