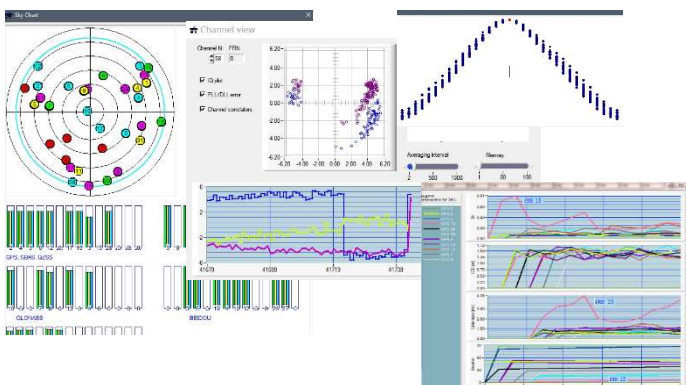




Originated from **JAXA COSMODE**, now the **Rapid Application Development (RAD) Platform** for advanced R&D.

ARAMIS SDR Engine for Windows



Visualized real-time baseband processor operation, baseband IQ, correlators, scintillation parameters.

Software Defined Radio RAD GNSS

- Real-time operation and post-processing of GNSS signals recorded to the control PC.
- Configurable RF inputs to 1,2,3 and 8 antennas, supporting a wide range of applications: standalone and RTK positioning, signal monitoring, CRPA, reflectometry, and more.
- Multi-frequency: **GPS, GLONASS, Galileo, BeiDou, NavIC, QZSS, SBAS.**
- Provides access to navigation and baseband processors through C++ API for R&D user algorithms and applications.
- OCXO
- Data rate: 50 Hz
- Open-source RTKLib integration
- “Hardware-receiver” style baseband algorithms
- Scintillation monitoring and signal analysis
- Configurable front-end bandwidth, signals, and filters

Academic



For the past seven years, we have opened the first day of the **Tokyo International GNSS Summer School**.

Used by three national space agencies and featured in three text books

Facilitates IMU integration R&D:

- ❑ **Adapter board** for RS-422 IMU interface to GNSS receiver. IMU data packets are transferred to the PC together with the receiver stream: **zero latency, perfect synchronization**, enabling seamless IMU–GNSS coupling.
- ❑ **Functions supported:**
 - IMU packet decoding
 - Loose coupling
 - Tight coupling
 - Ultra-tight coupling
- ❑ **Supported IMUs:**
 - Honeywell HG1120, Honeywell HG4930
 - **Interface:** RS-422 (asynchronous)



Offered in several front-end configurations and form factors covering a wide range of performance

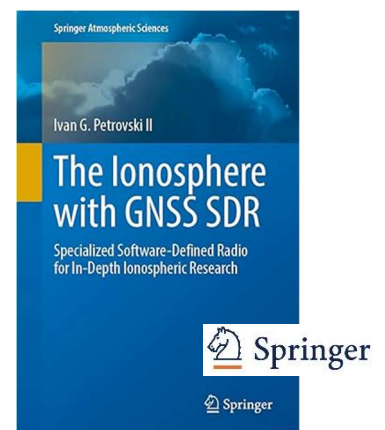
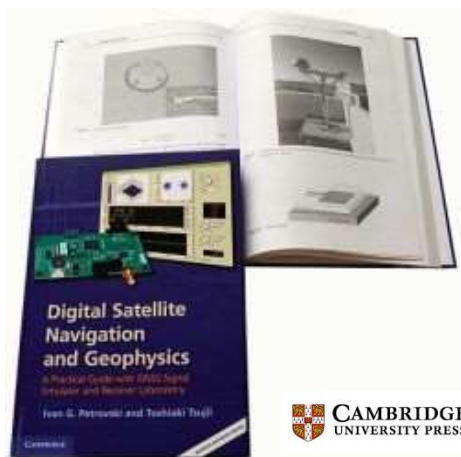
NEWSLETTER OF IPNTJ

測位航法学会ニューズレター Vol. XVI No.3 2025年10月10日



Institute of Positioning, Navigation and Timing of Japan News Letter featuring RAD R&D Platform presentation. products presented at Tokyo International GNSS Summer School

*See more on our webpage www.ip-solutions.jp and our YouTube channels :
@IpSolutionsSatNav
@TokyoGNSS*



R&D and academia supported by our books, published by Cambridge University Press (2012, 2014) , Springer (2024) and upcoming Artech House