

# VERSA-GEONYX

Highly Accurate Position, Navigation, & Timing for GPS Challenged Environments



**Many solutions in the market claim to operate in GNSS denied environments - Versa-GEONYX is purpose designed for operation in GNSS denied environments - it does not just operate in these environments, it excels.**

The Versa-GEONYX brings together the precise timing capabilities of the VersaPNT and the high performance navigation and pointing HRG technology of the GEONYX to provide a best-in-class, highly reliable, ruggedized navigation and timing solution. The Versa-GEONYX performs in even the harshest propagation environments.

Taking full advantage of the HRG Crystal™ technology in the GEONYX enables the Versa-GEONYX to perform high precision pointing and shortest in industry alignment without GNSS/GPS while maintaining ultra-reliability. Bringing the GNSS/GPS resiliency and precise timing to the solution is the VersaPNT. Utilizing BroadShield software, GNSS threats are detected and the mitigation technologies built into Versa-GEONYX are activated to allow continuous, uninterrupted operation.

The Versa-GEONYX brings together the best of inertial and timing technologies with built-in GNSS threat detection and mitigation, providing navigation and timing solutions you can trust, in any operating environment.

## Key Features

- HRG Crystal™ technology
- Operate in a GNSS denied environment
- Pointing accuracy < 0.5 mils
- SAASM/M-Code
- Alternative Navigation
- Multi-GNSS synchronization
- GPS Jamming & Spoofing detection
- Mini Rubidium Oscillator
- Optimized SWAP
- MIL-STD-801, MIL-STD-461
- PSPT - Portable Survivable Precision Time Clock

**Safran Federal Systems is the trusted Resilient PNT mission partner to U.S. government and defense organizations, from the lab to the field.**



**VersaPNT**

**PNT Resilience**

GNSS spoofing/jamming detection

**Flexible**

GNSS master clock and NTP/PTP time server

**Robust signal strength**

M-Code & Alternative Navigation Available

**Compact and ruggedized**

Low SWaP, Tested to MIL-STD-810G CH1



**GEONYX™**

**Operational efficiency**

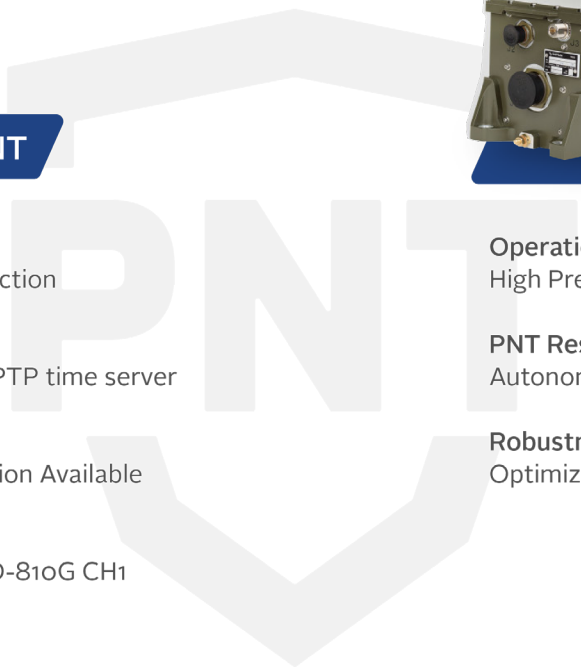
High Precision Navigation & Pointing

**PNT Resilience**

Autonomous alignment without GNSS

**Robustness and reliability**

Optimized SWaP - MIL-STD-810



Product	GEONYX Family
Heading RMS* @70° ↔ seclat	4 mils to <0.50 mils ↔ 1.40 mils to <0.20 mils
Alignment	Autonomous alignment without GNSS Full performance <10 min to < 5 min
Pitch & Roll (RMS)	1 mils to 0.20 mils
H.Position (CEP*)	0.30 % DT to 0.20 % DT
GNSS-denied survival	Unlimited
Size	6 L
Weight	6.4 kg
MTBF*	> 100,000

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