

Positioning, Navigation & Timing Resilience Using E-Loran Market 2030: Trends, Growth & Forecast Analysis

TBRC's Positioning, Navigation, And Timing (PNT) Resilience With E-Loran Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035

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particularly with enhanced long range navigation (E-Loran) technology, is gaining significant traction as the need for reliable and secure navigation systems increases across various sectors. With growing concerns over satellite system vulnerabilities, this market is set to experience substantial growth driven by technological advancements and evolving security requirements.

Current Market Size and Growth Trajectory of the PNT Resilience with E-Loran Market

The market for positioning, navigation, and timing (PNT) resilience enhanced by long range navigation (E-Loran) has shown impressive growth in recent years. It is projected to rise from \$1.17 billion in 2025 to \$1.33 billion in 2026, reflecting a strong compound annual growth rate (CAGR) of 13.8%. This upward trend in the historical period has been driven by heavy dependence on satellite-based navigation systems, increasing incidents of cyberattacks and jamming, the growing adoption of terrestrial backup technologies, expansion in critical infrastructure, and government mandates focused on defense.

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Future Market Outlook and Expansion Drivers of the PNT Resilience with E-Loran Market



Looking ahead, the PNT resilience with enhanced long range navigation (E-Loran) market is anticipated to expand rapidly, reaching a valuation of \$2.25 billion by 2030 at a CAGR of 14.0%. This forecasted surge is fueled by the growth of eLoran networks, integration with IoT-enabled navigation devices, rising demand for robust and resilient PNT solutions, investments in cybersecurity and anti-jamming technologies, and the modernization efforts in transportation and logistics systems. Key trends emerging during this period include improvements in eLoran signal reliability, closer integration with GNSS systems, real-time system monitoring and alert capabilities, and strengthened cybersecurity measures to ensure uninterrupted PNT services for critical infrastructure.

Understanding PNT Resilience with Enhanced Long Range Navigation (E-Loran)

Positioning, navigation, and timing (PNT) resilience using enhanced long range navigation (eLoran) refers to the ability to provide continuous, dependable, and trustworthy PNT services even when primary satellite-based systems like GPS face disruptions. This is achieved by deploying eLoran as a complementary terrestrial system that operates independently of GNSS. Thanks to its high-power, low-frequency signals, eLoran offers expansive coverage, excellent signal penetration, and natural resistance to jamming, spoofing, and cyber threats. This makes it an essential solution for critical infrastructure and users who require accurate navigation and precise timing under challenging conditions.

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Maritime Security Threats as a Catalyst for Market [Growth in PNT Resilience with E-Loran](#)

One of the primary factors propelling the PNT resilience with enhanced long range navigation (E-Loran) market is the rising incidence of maritime security threats. These threats include cyberattacks, electronic interference with satellite navigation, piracy, geopolitical conflicts, and other actions that jeopardize the safe operation of ships, ports, offshore platforms, and sea lanes. Particularly, cyber and electronic disruptions have become an increasing concern due to geopolitical tensions involving disputed waters, trade routes, and maritime chokepoints. E-Loran-based PNT resilience systems provide a terrestrial, independent backup to GNSS, ensuring vessels can maintain accurate positioning, navigation, and timing despite GPS jamming, spoofing, or cyberattacks.

Economic Impact of Maritime Cybersecurity Issues Driving Demand for PNT Resilience

The financial consequences of cyberattacks in maritime industries highlight the urgency for advanced PNT resilience solutions. For example, the Offshore Energy Exhibition & Conference (OEEC) reported in October 2023 that the average cost of a cyberattack in maritime sectors jumped from \$182,000 in 2022 to \$550,000 in 2023. This significant increase in the cost and frequency of cyber threats has intensified the demand for enhanced long range navigation (E-

Loran) solutions that bolster resilience against electronic and cyber disruptions, fueling the market's expansion throughout the forecast period.

Regional Market Landscape and Fastest Growing Area for PNT Resilience with E-Loran
In 2025, North America led the positioning, navigation, and timing (PNT) resilience with enhanced long range navigation (E-Loran) market in terms of size. However, the Asia-Pacific region is expected to experience the fastest growth rate during the forecast period. The market report covers a broad range of geographic areas, including Asia-Pacific, Southeast Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market trends and regional dynamics.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: marketing@tbrc.info

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+44 7882 955267

info@tbrc.info

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