

Global Commercial Airport Radar System Market Size Study and Forecast by Type (Surveillance Radars, Surface Movement Radars, Precision Approach Radars, Weather Radars), By Range (Short-range, Medium-range, Long-range), By Application (Air Traffic Control, Surface Movement Monitoring, Precision Approach & Landing, Weather Monitoring, Wind Shear Detection, Others), and Regional Forecasts 2026–2036

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Abstracts

Global Commercial Airport Radar System Market Definition & Scope

The Global Commercial Airport Radar System Market, valued at USD 5.88 Billion in 2025, is projected to reach USD 12.05 Billion by 2036, expanding at a CAGR of 6.73% during the forecast period. Rising global air traffic and the resulting need for safer, higher-capacity airport operations are emerging as major drivers for advanced commercial airport radar systems. According to the International Air Transport Association (IATA), 2025, global passenger demand increased by 10.4% in 2024, while international passenger demand increased by 13.6%, highlighting the continued expansion of aviation activity and pressure on airport and air traffic management infrastructure. Increasing aircraft movements are strengthening requirements for accurate surveillance, aircraft positioning, separation management, runway monitoring, and efficient air traffic flow. Airports are therefore investing in advanced surveillance radar, digital tracking systems, surface movement monitoring, and precision approach technologies to improve situational awareness and maintain safe operations as traffic volumes increase.

The market is also benefiting from accelerating airport modernization, air traffic management digitalization, runway safety initiatives, and all-weather operational requirements. Airports and aviation authorities are increasingly deploying advanced radar systems incorporating digital signal processing, solid-state components, phased-array architectures, automated tracking, and improved weather detection capabilities. Integration of artificial intelligence, machine learning, sensor fusion, remote monitoring, and digital air traffic management is further improving detection accuracy, target classification, predictive capabilities, and operational efficiency. Weather radar systems are becoming increasingly important for identifying hazardous atmospheric conditions, including wind shear and severe weather that can affect aircraft operations and runway safety. Increasing investments in new airports, runway expansions, airspace modernization, and next-generation air traffic control infrastructure are expected to create sustained demand for commercial airport radar systems. Strategic collaboration among radar manufacturers, airport operators, aviation authorities, and air traffic management technology providers is further supporting technology deployment and is expected to drive market growth through 2036.

Global Commercial Airport Radar System Market: Key Highlights

The Global Commercial Airport Radar System Market is expected to grow from USD 5.88 Billion in 2025 to USD 8.42 Billion by 2030, at a CAGR of 7.1% during the forecast period. Factors such as increasing air traffic, expansion of airport infrastructure, modernization of air traffic management systems, and increasing emphasis on aviation safety and operational efficiency are driving the growth of the market.

The market is expected to reach USD 12.05 Billion by 2036, growing at a CAGR of 6.73% from 2026 to 2036. Investment in airport modernization and runway expansion, next-generation air traffic control infrastructure, advanced surveillance technologies, and all-weather airport operations are supporting growth.

North America region is the largest in the global market estimated to have the highest share of 36.8% in 2025. The region boasts a well-developed airport infrastructure, high air traffic volumes, established air traffic management systems and ongoing investments in advanced radar and surveillance technologies.

The Asia Pacific region is expected to register the highest CAGR of 7.5% during 2026 – 2036, driven by rapid airport development and rising passenger traffic, development in aviation infrastructure, and modernization of air traffic control systems in China, India, Southeast Asia, and other emerging aviation markets.

Surveillance Radars dominated segment and expected to hold a market share of 34.7% by 2025. It is led by its critical role in aircraft detection and tracking, air traffic control, situational awareness and safe aircraft separation in airport and surrounding airspace.

Weather Radars are anticipated to experience the highest CAGR of 7.4% during the forecast period due to the growing emphasis on all-weather flight operations, enhanced detection of severe weather conditions, and the increasing requirement for real-time meteorological information at commercial airports.

Medium-range radar systems are expected to lead the range segment with 42.6% in 2025 owing to their wide use in airport surveillance, approach monitoring and air traffic management operations that require a balance between coverage and detection performance.

The long-range radar systems are projected to have the highest CAGR of 7.2% during 2026–2036, owing to the growing demand for longer aircraft detection, airspace surveillance, managing congestion at airports and enhanced situational awareness around major international airports.

Air traffic control is estimated to hold 38.5% share of the application segment in 2025. The segment's leadership is motivated by the importance of radar systems for tracking aircraft, managing separation, coordinating traffic flow, and operating airports safely.

Weather Monitoring is expected to witness the highest CAGR of 7.6% from 2026–2036, driven by the growing demand for real-time weather intelligence, detection of severe weather, enhancement of flight safety, and operational continuity in adverse atmospheric conditions.

Increasing investments in solid-state radar technologies, phased-array radar systems, AI-enabled signal processing, automated aircraft tracking, integrated sensor networks, digital air traffic management, remote radar monitoring, and advanced weather detection systems will create significant long-term

opportunities for radar manufacturers, airport operators, aviation authorities, air traffic management providers and aerospace technology companies.

Research Scope & Methodology

This study provides a comprehensive strategic assessment of the Global Commercial Airport Radar System Market across the forecast period of 2026–2036. The report covers market size, revenue forecast, competitive landscape, technological innovations, airport modernization, and emerging investment opportunities influencing the global commercial airport radar system market. The assessment encompasses the full value chain ranging from radar design, component manufacturing, system integration, installation, testing, maintenance, upgrades and deployment across commercial airport infrastructure. The market is analyzed based on type (surveillance radars, surface movement radars, precision approach radars, weather radars), range (short-range, medium-range, long-range) and application (air traffic control, surface movement monitoring, precision approach & landing, weather monitoring, wind shear detection, others). The regional analysis includes North America, Europe, Asia Pacific, and LAMEA. The study focuses on airport construction, passenger traffic, air traffic management modernization, runway expansion, aviation safety requirements, and investments in advanced surveillance infrastructure influencing the growth of the regional market. The report also studies innovations in solid-state radar, phased-array architectures, AI-enabled signal processing, automated aircraft tracking, integrated sensor networks, digital air traffic management, remote radar monitoring and advanced weather detection technologies that continue to transform the competitive landscape of the global commercial airport radar system market.

Research Methodology: The research methodology incorporates extensive primary and secondary research to ensure reliable market intelligence and long-term forecasting. Primary research involves structured interviews with radar manufacturers, airport operators, aviation authorities, air navigation service providers, air traffic management organizations, aerospace technology suppliers and industry experts in major global markets. Secondary research includes publications from aviation authorities, airport bodies, government agencies, company annual reports, investor presentations, technical publications, scientific journals, air traffic management reports, and verified market intelligence sources. Market estimates are based on top-down and bottom-up approaches and validated thru triangulation methodology to arrive at the most appropriate market estimates and forecasts. Forecast models include past radar demand, airport expansion, passenger traffic, air traffic volumes, infrastructure

investments, runway development, modernization programs, regulatory developments and macroeconomic indicators. Competitive benchmarking is done to assess the product portfolios, technology capabilities, geographic presence, investment in research and development, strategic collaborations, system integration capabilities, and innovation pipelines of the key players in the Global Commercial Airport Radar System Market. This is done to give an in-depth look at the changing competitive dynamics in the market.

Key Market Segments

By Type:

Surveillance Radars

Surface Movement Radars

Precision Approach Radars

Weather Radars

By Range:

Short-range

Medium-range

Long-range

By Application:

Air Traffic Control

Surface Movement Monitoring

Precision Approach & Landing

Weather Monitoring

Wind Shear Detection

Others

Key Market Players

DeTect, Inc.

ELDIS Pardubice, s.r.o.

RTX Corporation

NEC Corporation

Terma A/S

Indra Sistemas, S.A.

Easat Radar Systems Ltd.

Leonardo S.p.A.

Honeywell International Inc.

Blighter Surveillance Systems Limited

Industry Trends

The increasing global air traffic and expansion of airport capacity are continuing to drive the demand for advanced radar systems as commercial airports are upgrading surveillance infrastructure for better tracking of aircraft, traffic management, runway safety and operational efficiency.

Digital air traffic management is driving the use of solid state radar, phased-array radar, automated tracking and advanced signal processing technologies that provide improved detection accuracy, reliability and real-time situational awareness.

Surface movement radar systems are becoming more and more important as the major airports are trying to improve runway and taxiway safety, reduce ground-incursion risk and improve monitoring of the aircraft and ground vehicles during high-density airport operations.

Precision approach radar (PAR) technologies are being increasingly deployed to support reliable aircraft approach and landing operations especially at airports where increased guidance capabilities are needed in conditions of reduced visibility and adverse weather conditions.

Airports are increasingly turning to weather radar systems to monitor precipitation, storms, wind patterns and other atmospheric conditions in real time that can affect aircraft operations and flight safety.

Artificial intelligence and machine learning are increasingly integrated into radar signal processing and surveillance platforms to improve target detection, clutter suppression, anomaly detection, automated tracking, and operational decision support.

Airport operators are increasingly looking to integrated sensor networks, blending radar with ADS-B, multilateration, cameras, weather sensors and other surveillance technologies to build comprehensive situational-awareness platforms for air traffic and surface operations.

Remote monitoring and digital maintenance technologies improve the availability of radar systems, e.g., thru diagnostics and predictive maintenance at central units, equipment health monitoring and more rapid identification of potential system failures.

Airport modernization and smart airport initiatives are spurring investments in interconnected air traffic management infrastructure, automated systems, advanced communications and data-driven operational platforms that improve airport capacity and efficiency.

Ongoing strategic collaborations between radar manufacturers, airport operators, aviation authorities, air navigation service providers and air traffic management technology companies are driving innovation and driving the industry forward. Long-term growth of global commercial airport radar system market thru 2036 is expected to be propelled by investments in solid-state radar,

phased-array architectures, AI-enabled signal processing, automated aircraft tracking, integrated sensor networks, digital air traffic management, remote radar monitoring and advanced weather detection systems.

Market Determinants

Increasing Global Air Traffic and Airport Expansion: Rising passenger traffic, aircraft movements, airport construction, and runway expansion are driving demand for advanced commercial airport radar systems. Airport operators are investing in modern surveillance infrastructure to improve aircraft tracking, traffic flow management, runway safety, and overall operational efficiency.

Modernization of Air Traffic Management Infrastructure: Increasing replacement of legacy surveillance systems with digital, automated, and high-performance radar technologies is accelerating market demand. Solid-state radar, advanced signal processing, automated tracking, and integrated surveillance platforms are improving detection accuracy, system reliability, and air traffic situational awareness.

Growing Focus on Airport Safety and All-Weather Operations: Increasing emphasis on runway safety, surface movement monitoring, precision approach, wind shear detection, and adverse-weather operations is strengthening demand for specialized radar systems. Airports are increasingly deploying surveillance and weather monitoring technologies to reduce operational risks and maintain flight continuity.

Advancements in AI-Enabled Radar and Integrated Sensor Technologies: Continuous development of artificial intelligence, machine learning, phased-array radar, sensor fusion, and digital signal processing is improving target detection, clutter management, automated tracking, anomaly identification, and real-time decision support. Integration with ADS-B, multilateration, cameras, and weather sensors is further expanding radar capabilities.

High Installation and System Integration Costs: Advanced airport radar systems require substantial investment in equipment, infrastructure, installation, calibration, integration, and maintenance. High capital expenditure can constrain adoption, particularly among smaller airports and facilities operating under limited infrastructure budgets.

Stringent Aviation Regulations and Complex Procurement Cycles: Airport radar systems must meet rigorous aviation safety, performance, interoperability, and certification requirements. Complex procurement procedures, lengthy testing and approval processes, and compatibility requirements with existing air traffic management infrastructure can increase deployment timelines and implementation costs.

Opportunity Mapping Based on Market Trends

Expansion of Airport Infrastructure and Air Traffic Management Modernization: Increasing investments in new commercial airports, runway expansions, airport upgrades, and next-generation air traffic management infrastructure are creating significant opportunities for radar manufacturers. Growing aircraft movements and airport congestion are increasing demand for advanced surveillance, surface monitoring, and precision approach systems.

Growing Adoption of AI-Enabled Radar and Integrated Surveillance: Increasing deployment of artificial intelligence, machine learning, advanced signal processing, sensor fusion, and automated aircraft tracking is creating opportunities to develop radar systems with improved detection accuracy, clutter reduction, predictive analytics, and real-time operational decision support.

Expansion of Weather and All-Weather Airport Monitoring: Growing emphasis on aviation safety and operational continuity is creating substantial opportunities for weather radar, wind shear detection, and precision approach systems. Airports are increasingly investing in advanced meteorological surveillance technologies to improve aircraft operations during adverse weather conditions.

Development of Smart Airports and Digital Air Traffic Management: Increasing investments in smart airport infrastructure, digital air traffic management, remote monitoring, predictive maintenance, and integrated surveillance platforms across Asia Pacific, North America, Europe, and emerging aviation markets are creating substantial long-term opportunities. Companies investing in solid-state radar, phased-array architectures, AI-enabled signal processing, automated aircraft tracking, integrated sensor networks, digital air traffic management, remote radar monitoring, and advanced weather detection systems will be well positioned to capitalize on the accelerating global demand for commercial airport

radar systems through 2036.

Value-Creating Segments and Growth Pockets

Surveillance Radars Lead as Airport Traffic Management Intensifies

Surveillance Radars are expected to dominate the type segment, accounting for an estimated 34.7% share in 2025. The segment's leadership is supported by the critical role of surveillance radar in aircraft detection and tracking, air traffic control, situational awareness, and safe aircraft separation within commercial airport environments. As airports handle increasing aircraft movements, reliable surveillance capabilities are becoming increasingly important for maintaining orderly traffic flows and preventing operational conflicts. Modern surveillance radars are increasingly incorporating digital signal processing, automated target tracking, improved detection capabilities, and integration with broader air traffic management systems. Expansion of airport infrastructure, increasing air traffic volumes, runway development, and modernization of existing air traffic control systems are further strengthening demand. Continued investments in advanced surveillance technologies are expected to maintain the segment's leading position as airports seek higher tracking accuracy, operational reliability, and airspace efficiency.

Weather Radars are projected to register the highest CAGR of 7.4% during 2026–2036, driven by rising demand for real-time meteorological information, severe weather detection, all-weather flight operations, and improved airport safety. Increasing air traffic is making reliable weather intelligence increasingly important for flight scheduling, routing, runway operations, and airport capacity management. Advanced weather radar systems provide detailed information on precipitation, storms, wind patterns, and other atmospheric conditions that can affect aircraft operations. Integration of improved signal processing, automated weather detection, remote monitoring, and data analytics is further enhancing the usefulness of airport weather radar systems. Growing emphasis on operational continuity and aviation safety during adverse weather conditions is expected to accelerate adoption across commercial airports.

Medium-Range Systems Balance Coverage and Airport Surveillance Needs

Medium-range radar systems are anticipated to dominate the range segment, accounting for an estimated 42.6% share in 2025. The segment's leadership is supported by broad application across airport surveillance, approach monitoring, and air

traffic management operations requiring a balance between detection coverage, accuracy, infrastructure requirements, and operating performance. Medium-range systems can provide effective monitoring of aircraft operating within and around airport airspace while supporting approach control and traffic coordination activities. Increasing airport traffic, expansion of regional aviation networks, and modernization of air traffic management infrastructure are creating sustained demand for radar systems capable of providing dependable coverage without the infrastructure requirements associated with the longest-range systems. Integration with digital air traffic management platforms and automated tracking technologies is further strengthening their operational value.

Long-range radar systems are projected to register the highest CAGR of 7.2% during 2026–2036, driven by increasing demand for extended aircraft detection, wider airspace monitoring, congestion management, and enhanced situational awareness around major international airports. As airport traffic volumes increase and airspace becomes more congested, aviation authorities require broader surveillance coverage to improve traffic coordination and maintain safe aircraft separation. Long-range systems can support monitoring of aircraft over greater distances, allowing air traffic controllers to obtain earlier information about approaching traffic and improve traffic flow planning. Increasing development of major international airports, expansion of high-density air routes, and modernization of national and regional air traffic management systems are expected to create additional demand for long-range radar infrastructure.

Air Traffic Control Remains Central to Airport Radar Deployment

Air Traffic Control is expected to dominate the application segment, accounting for an estimated 38.5% share in 2025. The segment's leadership is supported by the essential role of radar systems in aircraft tracking, aircraft separation, traffic flow coordination, and safe airport operations. Increasing aircraft movements are placing greater pressure on air traffic controllers and airport infrastructure to manage traffic efficiently while maintaining stringent safety requirements. Advanced radar systems provide continuous surveillance information that supports controller decision-making and enables more efficient coordination of aircraft within airport airspace. Digital signal processing, automated tracking, sensor integration, and improved target identification are further enhancing radar capabilities. Continued expansion of airport capacity, airspace modernization, and investments in next-generation air traffic management infrastructure are expected to sustain demand for radar systems across air traffic control applications.

Weather Monitoring is projected to register the highest CAGR of 7.6% during

2026–2036, driven by growing demand for real-time weather intelligence and detection of severe atmospheric conditions that can affect flight safety and operational continuity. Airports increasingly require accurate information on precipitation, storms, wind conditions, visibility, and other weather variables to support safe aircraft movements and efficient airport operations. Advanced radar systems are enabling more precise and timely detection of hazardous weather, helping aviation authorities manage runway operations, flight schedules, aircraft routing, and airport capacity during adverse conditions. Increasing emphasis on all-weather operations and resilience against weather-related disruptions is further supporting investment in airport meteorological infrastructure. Integration of radar data with digital aviation platforms and automated decision-support systems is expected to further strengthen the adoption of weather monitoring technologies.

Regional Market Assessment

Advanced Aviation Infrastructure Sustains North American Leadership

North America is expected to dominate the global commercial airport radar system market, accounting for an estimated 36.8% share in 2025. The region's leadership is driven by extensive airport infrastructure, high air traffic volumes, established air traffic management systems, and continuous investments in advanced radar and surveillance technologies. The United States remains a major contributor through airport modernization, runway safety initiatives, air traffic management upgrades, and deployment of advanced surveillance and weather monitoring systems. According to the Federal Aviation Administration (FAA), 2025, the United States has more than 19,000 airports, heliports, and other landing facilities, creating a substantial installed base for aviation surveillance and safety infrastructure. Increasing aircraft movements, modernization of aging radar systems, adoption of digital air traffic management, and growing requirements for precise aircraft tracking are further supporting regional demand. Investments in surface movement monitoring, precision approach systems, weather radar, and integrated surveillance technologies are expected to sustain North American market leadership.

Airport Expansion and Rising Air Traffic Accelerate Asia Pacific Growth

Asia Pacific is projected to register the highest CAGR of 7.5% during 2026–2036, fueled by rapid airport construction, increasing passenger traffic, expanding aviation infrastructure, and modernization of air traffic control systems. China, India, Southeast Asian countries, and other emerging aviation markets are investing in new airports,

runway expansions, advanced surveillance infrastructure, and digital air traffic management technologies. According to the International Air Transport Association (IATA), 2025, Asia Pacific international passenger demand increased by approximately 16.9% in 2024, demonstrating the region's rapidly expanding aviation activity. Rising aircraft movements are increasing requirements for reliable surveillance, aircraft separation, surface monitoring, precision approach, and weather detection systems. Continued development of major international airports, expansion of regional aviation networks, and investments in next-generation air traffic management infrastructure are expected to create strong opportunities for commercial airport radar system providers.

Air Traffic Modernization Strengthens European Radar Demand

Europe represents a significant market for commercial airport radar systems, supported by established aviation infrastructure, stringent airport safety requirements, increasing air traffic management modernization, and investments in advanced surveillance technologies. Countries including Germany, France, the United Kingdom, Spain, and Italy continue to upgrade airport radar infrastructure to improve aircraft tracking, surface movement monitoring, precision approaches, and all-weather operational capabilities. Increasing emphasis on airport capacity optimization and safe management of increasingly complex air traffic is encouraging aviation authorities to adopt digital surveillance, automated tracking, and integrated sensor technologies. Modernization of aging air traffic management infrastructure is also creating demand for advanced radar systems with improved detection accuracy and data integration capabilities. Continued investments in airport expansion, runway safety, and digital airspace management are expected to support regional market growth.

Airport Modernization Creates LAMEA Growth Opportunities

LAMEA is emerging as a promising commercial airport radar system market owing to increasing airport construction, aviation infrastructure development, rising passenger traffic, and modernization of air traffic management systems. Countries across Latin America, the Middle East, and Africa are investing in airport expansion, runway safety technologies, weather monitoring systems, and advanced surveillance solutions to strengthen aviation capacity and operational efficiency. Major airport development programs and increasing international connectivity are creating requirements for reliable aircraft surveillance and air traffic management infrastructure. The expansion of aviation hubs across the Middle East is further increasing demand for advanced radar technologies capable of supporting high-density air traffic and complex airport operations. Growing investments in digital air traffic management, precision approach

systems, surface movement monitoring, and all-weather operational capabilities are expected to create additional opportunities for radar manufacturers across the region.

Recent Developments

May 2025: RTX Corporation continued advancing its air traffic management and radar technologies to support airport surveillance, aircraft tracking, and next-generation aviation infrastructure.

April 2025: Leonardo S.p.A. strengthened its portfolio of advanced radar and air traffic management solutions, supporting the modernization of airport surveillance and aviation safety infrastructure.

October 2024: Indra Sistemas, S.A. continued expanding its air traffic management technology capabilities through advanced surveillance and radar solutions designed to improve airport capacity, safety, and operational efficiency.

August 2024: Terma A/S continued developing advanced radar and surveillance technologies for aviation and airport applications, focusing on improved detection, situational awareness, and operational reliability.

Critical Business Questions Addressed

How will the Global Commercial Airport Radar System Market evolve through 2036?

The report evaluates long-term market growth driven by increasing air traffic, airport expansion, air traffic management modernization, runway safety requirements, and adoption of advanced surveillance technologies.

Which type, range, and application segments will generate the greatest commercial opportunities?

The study identifies the dominant and fastest-growing market segments, enabling radar manufacturers, airport operators, aviation authorities, and air traffic management providers to prioritize strategic investments.

What are the primary factors driving market expansion?

The report analyzes the influence of airport modernization, rising aircraft movements, digital air traffic management, AI-enabled radar technologies, surface movement monitoring, precision approaches, and weather surveillance on future market development.

Which regional markets present the strongest long-term investment potential?

The assessment compares airport infrastructure development, passenger traffic, air traffic management modernization, regulatory requirements, and technology adoption across major regions to identify attractive growth opportunities.

How can commercial airport radar system manufacturers strengthen their competitive position?

The report examines strategic priorities including solid-state radar, phased-array architectures, AI-enabled signal processing, integrated sensor networks, automated aircraft tracking, remote monitoring, advanced weather detection, and strategic partnerships to support long-term competitive advantage.

Beyond the Forecast

The commercial airport radar system market will continue to evolve through advancements in solid-state radar, phased-array architectures, AI-enabled signal processing, automated aircraft tracking, integrated sensor networks, digital air traffic management, remote radar monitoring, and advanced weather detection, enabling improved airport safety, surveillance accuracy, and operational efficiency.

Rising investments in new airports, runway expansion, airport modernization, air traffic management infrastructure, smart airports, all-weather operations, and aviation safety systems will continue creating substantial opportunities for radar manufacturers, airport operators, aviation authorities, and air traffic management technology providers worldwide.

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