Radio Access Network (RAN) Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Communication Infrastructure (Small Cell, Macro Cell, RAN Equipment, and Distributed Antenna System), By Technology (2G, 3G, 4G, and 5G), By End User (Residential and Enterprise), By Region & Competition, 2021-2031F

Market Report | 2026-01-05 | 185 pages | TechSci Research

AVAILABLE LICENSES:

- Single User License $4500.00
- Multi-User License $5500.00
- Custom Research License $8000.00

Report description:

Market Overview
The Global Radio Access Network (RAN) Market will grow from USD 14.31 Billion in 2025 to USD 25.03 Billion by 2031 at a 9.77% CAGR. The Radio Access Network (RAN) constitutes the critical telecommunications infrastructure that connects individual mobile devices to the core network through radio frequency signals.
Key Market Drivers
Rapid expansion of commercial 5G network infrastructure drives market growth, necessitating advanced base stations and massive MIMO antenna arrays. Operators are upgrading sites to support higher frequency bands and increase spectral efficiency. This rollout is directly driven by the intense migration of consumers to next-generation networks.
Key Market Challenges
The primary impediment hampering the expansion of the Global Radio Access Network (RAN) market is the substantial capital expenditure required for network densification and spectrum acquisition. Telecommunication operators are currently burdened by the dual financial strain of maintaining legacy infrastructure while simultaneously funding the extensive rollout of next-generation 5G base stations. This financial pressure is intensified by the technical requirements of high-frequency bands, which necessitate a denser grid of small cells to achieve adequate coverage, thereby multiplying hardware and installation costs significantly.
Key Market Trends
The integration of Artificial Intelligence and Machine Learning for intelligent automation is emerging as a critical trend in the RAN

sector, addressing the complexities of managing dense 5G networks. Operators are increasingly deploying AI-driven algorithms to optimize spectral efficiency, manage real-time interference, and automate routine network operations, thereby reducing manual intervention and operational costs. This technological convergence enables predictive maintenance and dynamic resource allocation, which are essential for maintaining service quality in highly congested environments.

Key Market Players

-Huawei
-Ericsson
-Nokia
-Samsung Electronics
-ZTE Corporation
-NEC Corporation
-Fujitsu Limited
-Mavenir Inc.
-Cisco Systems, Inc.
-Intel Corporation

Report Scope:

In this report, the Global Radio Access Network (RAN) Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-Radio Access Network (RAN) Market, By Communication Infrastructure:
oSmall Cell
oMacro Cell
oRAN Equipment
oDistributed Antenna System
-Radio Access Network (RAN) Market, By Technology:
o2G
o3G
o4G
o5G
-Radio Access Network (RAN) Market, By End User:
oResidential and Enterprise
-Radio Access Network (RAN) Market, By Region:
oNorth America
-United States
-Canada
-Mexico
oEurope
-France
-United Kingdom
-Italy
-Germany
-Spain
oAsia Pacific
-China
-India
-Japan
-Australia
-South Korea

o South America
- Brazil
- Argentina
- Colombia
o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Radio Access Network (RAN) Market.

Available Customizations:

Global Radio Access Network (RAN) Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

Radio Access Network (RAN) Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Communication Infrastructure (Small Cell, Macro Cell, RAN Equipment, and Distributed Antenna System), By Technology (2G, 3G, 4G, and 5G), By End User (Residential and Enterprise), By Region & Competition, 2021-2031F

Market Report | 2026-01-05 | 185 pages | TechSci Research

To place an Order with Scotts International:

- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	$4500.00
	Multi-User License	$5500.00
	Custom Research License	$8000.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	

Address*		City*	
Zip Code*		Country*	
		Date	2026-02-06
		Signature	