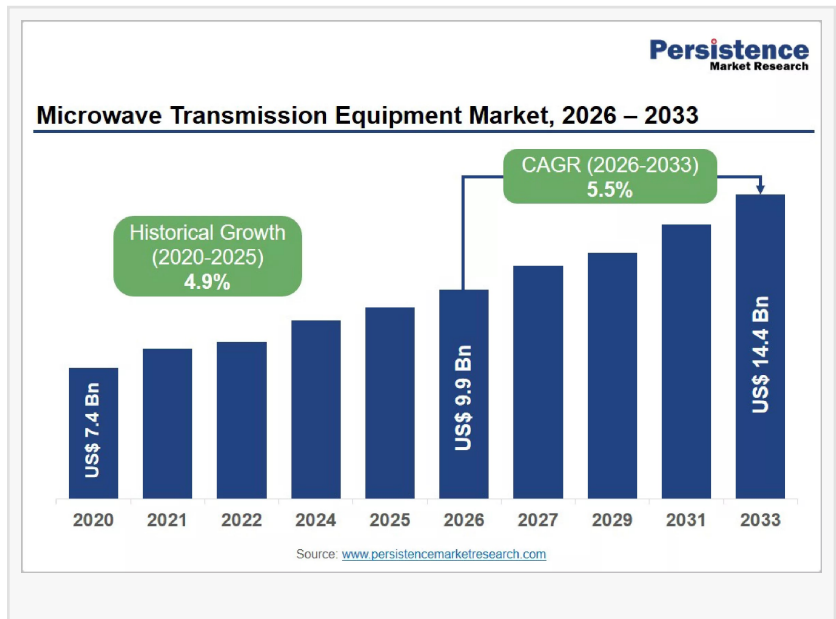


Microwave Transmission Equipment Market to Reach US\$ 14.4 Billion by 2033 Driven by 5G Network Expansion

Explore the Microwave Transmission Equipment Market, projected to grow from US\$9.9 Bn in 2026 to US\$14.4 Bn by 2033 at a 5.5% CAGR

BRENTFORD, ENGLAND, UNITED KINGDOM, August 5, 2026

/EINPresswire.com/ -- The global [microwave transmission equipment market](#) is experiencing steady growth as telecom operators accelerate 5G rollouts, enhance network coverage, and invest in high-capacity wireless backhaul infrastructure. The market is estimated to reach US\$ 9.9 billion in 2026 and is projected to grow to US\$ 14.4 billion by 2033, expanding at a CAGR of 5.5% during 2026–2033. Rising mobile data traffic, network densification, and the growing need for reliable connectivity in areas where fiber deployment is costly or challenging are key factors driving market expansion.



Microwave transmission equipment provides point-to-point wireless connectivity for mobile base stations, enterprise networks, government systems, and remote locations. With global 5G connections surpassing 1.6 billion in 2024, operators are increasingly deploying advanced microwave radios to support higher bandwidth and low-latency services. Asia Pacific is expected to lead the market with around 42.3% share in 2026, supported by major 5G investments in China, India, and other emerging markets. Among frequency bands, the 15 GHz–23 GHz segment dominates with nearly 31% market share, owing to its optimal balance of coverage range, capacity, and reliability.

The market is primarily fueled by expanding 5G infrastructure, increasing mobile data consumption, spectrum advancements, and rising demand for wireless backhaul solutions. Microwave technology remains a preferred option where fiber installation faces cost, time, or geographical limitations. Additionally, growing adoption of private networks, defense

communication systems, utility modernization, and smart infrastructure projects is opening new growth opportunities beyond traditional telecom applications.

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Microwave Transmission Equipment Market Segmentation Analysis

The microwave transmission equipment market can be segmented based on frequency band, application, end-user, and geography. Based on frequency band, the market includes 6 GHz–13 GHz, 15 GHz–23 GHz, 26 GHz–42 GHz, and E-Band frequencies. The 15 GHz–23 GHz segment currently leads the market due to its widespread adoption in urban and suburban macro backhaul networks. These frequencies provide an effective combination of range, reliability, and bandwidth capacity. The 6 GHz–13 GHz segment is expected to witness the fastest growth during the forecast period, supported by demand for long-distance wireless links, rural connectivity expansion, and applications where fiber infrastructure is limited.

By application, mobile backhaul represents the dominant segment, accounting for approximately 58% share in 2026. Microwave backhaul plays a critical role in connecting radio access networks with core infrastructure, especially as operators expand 5G small-cell and macro-cell networks. Rising mobile data traffic, increasing fixed wireless access adoption, and the need for faster network deployment continue to strengthen demand for microwave backhaul equipment.

Based on end-user, telecommunications service providers represent the largest customer segment. Mobile network operators are investing heavily in software-defined microwave radios, adaptive modulation technologies, and high-capacity transport solutions to improve network performance. Other end users include government agencies, defense organizations, utilities, transportation companies, and enterprises deploying private communication networks.

Regional Insights of Microwave Transmission Equipment Market

Asia Pacific is expected to remain the largest regional market for microwave transmission equipment, accounting for approximately 42.3% share in 2026. The region's dominance is supported by rapid 5G rollout programs, high mobile subscriber growth, and extensive wireless infrastructure development. China represents the largest contributor due to its massive 5G base station deployment and continued investment in rural connectivity. India is also becoming a significant market as telecom operators expand 5G networks across diverse geographic regions where fiber availability remains limited.

North America is projected to capture nearly 17% market share in 2026. Growth in the region is supported by 5G network modernization, increasing adoption of E-Band microwave solutions, and demand for high-capacity small-cell backhaul. In the United States, FCC spectrum initiatives,

FirstNet public safety communication networks, private enterprise networks, and utility modernization projects are driving equipment demand.

Europe is expected to account for around 22.4% share of the global market in 2026. The region benefits from coordinated spectrum management policies, E-Band adoption, and investments in railway communication systems, energy infrastructure, and industrial connectivity. Germany and the U.K. represent major European markets due to 5G expansion, Industry 4.0 initiatives, and rural connectivity programs.

The Middle East & Africa region is anticipated to experience the fastest growth during the forecast period. Limited fiber infrastructure, large geographic areas, and increasing 5G deployment initiatives are encouraging operators to adopt microwave transmission solutions as a cost-effective connectivity option.

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Market Drivers

The growth of 5G networks, rising mobile data traffic, and increasing demand for high-capacity wireless backhaul solutions are driving the microwave transmission equipment market. Spectrum liberalization and adoption of E-Band frequencies are further supporting deployment of advanced microwave links for small-cell networks and enterprise connectivity.

Market Restraints

The expansion of fiber networks is limiting microwave adoption in dense urban areas due to higher capacity and lower long-term costs. Spectrum congestion, interference issues, and complex frequency coordination requirements also challenge market growth.

Market Opportunities

Growing adoption of E-Band, multi-band radios, private networks, defense communication, and utility modernization is creating new opportunities for microwave equipment providers. These applications require reliable, secure, and high-performance wireless connectivity solutions.

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Company Insights

Key players operating in the microwave transmission equipment market include:

- Huawei Technologies

- Ericsson
- Nokia
- ZTE Corporation
- Ceragon Networks
- NEC Corporation
- Aviat Networks
- Cambium Networks
- SIAE MICROELETTRONICA
- DragonWave-X
- Intracom Telecom
- Airspan Networks
- RAD Data Communications
- Tejas Networks
- Comba Telecom Systems Holdings

Conclusion

The microwave transmission equipment market is expected to witness steady growth as 5G expansion and network modernization increase demand for advanced wireless backhaul solutions. Despite competition from fiber networks, microwave technology continues to offer flexibility, faster deployment, and cost advantages in remote and challenging areas. Rising adoption of E-Band solutions, multi-band radios, private networks, and smart infrastructure projects will further drive market opportunities. With strong demand from Asia Pacific and growing applications across telecom, defense, utilities, and transportation sectors, microwave transmission equipment will remain a key technology for next-generation connectivity through 2033.

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