Terminal Antennas Market: Demand for High Performance Wireless Devices

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Terminal Antennas Market - Global Industry Analysis, Size, Share, Growth, Trends, and Forecast 2017 - 2025

Albany, NY -- (SBWire) -- 01/15/2018 --An antenna is an electrical component, which acts as the coupling between a guided electrical signal and an unguided medium, typically between a coaxial cable and free space. The antenna transforms electrical signals into electromagnetic waves or radio waves. An antenna is basically an array of conductor (elements), electrically connected to the receiver or transmitter. The terminal antenna is external; either a retractable rod, or to make it smaller, folded together into a coil or helix. The terminal antenna design has witnessed a remarkable revolution in the past few years. Terminal antennas are exclusively single ended, i.e. the reference terminal is the ground plane or chassis. Therefore, terminal antennas should in principle be compatible with coaxial cables, where the coaxial shield is soldered to the chassis metal and the center conductor is attached to the feed terminal. Conventionally, terminal antennas are designed based on the simple often unrealistic criteria, including an emphasis on antenna performance in free space. The main problem of measuring the performance of such antennas is the influence of coaxial feed cable connected to the measurement equipment. Most antennas are designed for easy connection to ISM terminals and equipment. The terminal antennas are mostly designed with ultra-compact dimensions to the wavelength .Such antennas are light in weight. Terminal antenna with only a horizontally polarized dipole array yields a low SNR.


Demand for high performance wireless devices, wide band high efficiency across all operating bands, need for efficient small antennas for the handheld terminals, evolving customer demands are some of the primary factors driving the growth of global terminal antennas market. The growing need for bidirectional mobile satellite communications in the Ka-band necessitated the development of dedicated terminal antenna systems. Efforts are being taken by many companies to upgrade their research and development activities to introduce innovations in this field.

The global terminal antennas market is segmented on the basis of geometry, end use and region. The terminal antenna can be classified according to their geometry into dipole, slots and cavities. The simplest omnidirectional antenna is the dipole. On the basis of end-use the terminal antennas market can be segmented into broadband communication, maritime satellite communication, remote asset monitoring applications, alarms, paging systems, industrial devices, smart meters, medical devices, home automation and private mobile radio services. Mobile terminal antenna include those used in cellular phones, walkie-talkies for private and emergency service applications and data terminals such as laptops. The smart mobile terminal antennas can provide a better performance for mobile wireless computing networks and communications systems, and significantly reduce multipath fading, delay spread and co-channel interference at mobile terminals. Terminal antennas are ideally suited for GSM, CDMA, 3G, 4G, LTE, GPS, GNSS, WiFi, Bluetooth and IoT applications. Demand have been heavily focused on terminals that are easy to export and easy to use so that no technicians
are required to set up or to line up the antenna with the satellite. Mobile terminal antennas are central in the development of spectrum efficient high data rate mobile communication systems. Terminal Antennas designed for the terminal of mobile communication system are small in dimension. Such antennas have a light structure which makes it easy to install. Geographically, the global terminal antennas market can be segmented into Europe, North America, Asia Pacific and Middle East & Africa.

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Some of the key players operating in the global terminal antennas market with most significant development are Taoglas - Antenna Solutions, Panorama Antennas, Kenbotong Technology Co. Ltd., Antenova Ltd., Embedded Antenna Design Ltd. and M2M Connectivity among others.

The report offers a comprehensive evaluation of the market. It does so via in-depth qualitative insights, historical data, and verifiable projections about market size. The projections featured in the report have been derived using proven research methodologies and assumptions. By doing so, the research report serves as a repository of analysis and information for every facet of the market, including but not limited to: Regional markets, technology, types, and applications.

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