

Wireless Gigabit (WiGig) Market (IEEE 802.11ad, 60 GHz, 7Gbps Wi-Fi, Wireless Gigabit Alliance, Access Points, Routers, Residential Gateways, Backhaul Equipment) - Worldwide Forecasts, Business Models, Technology Roadmap and Analysis (2014 - 2019)

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Abstracts

Wireless Gigabit (WiGig) is a short range in-room wireless technology, operating in the unlicensed 60 GHz range. WiGig transfers data content at the speed of 7Gbps, 10 times faster than the existing Wi-Fi technology. It can transfer audio, high definition video, multimedia applications and any kind of backup data at high speed, over a distance of 10 to 12 meters without the need of wires. The technology supports backward compatibility, thereby enabling tri-band services and ensuring maximum accuracy and data security. As the radio waves are transferred separately, the technology supports wireless docking, thereby enabling wireless connectivity between devices such as PCs, tablets, home entertainment devices, computer peripherals, USBs, and display ports.

WiGig is being backed by the WiGig Alliance, in association with prominent industry standardization bodies such as IEEE, Wi-Fi alliance, and VESA. The WiGig Alliance has recently announced its certification ready specifications, in order to take WiGig to a next level. With the availability of more digital entertainment options and ever increasing demand for faster wireless communication, the technology is emerging as the most important next generation wireless technology. Apart from various start ups, many networking and chipset giants are also embracing WiGig in a big way by developing a wide gamut of products and services which will surely make the multi gigabit wireless technology a huge success of this decade.

Application areas of WiGig market include Academia and Education, BFSI, Healthcare, Government and Defense, Retail, Media and Advertisement, Manufacturing, Oil and

Gas, Transportation and Logistics, and other verticals.

The prime feature of WiGig technology is its ability of wireless data sharing at very high speed without compromising on its accuracy and quality. As per its PHY and MAC specification it enables data sharing at the speed of 7 Gbps, which is 10 times faster than the current maximum 802.11n standard. With its “Whole Home” wireless networking concept it connects all the multimedia, computing and networking devices at home or office over a short range of distance to provide the ultra speed.

The wireless gigabit alliance in its recently released draft specification – Protocol Adaptation Layer (PAL) has clearly discussed about wireless data sharing and it can be enabled in various devices and peripherals. The WiGig Bus extension and WiGig serial extension (WSE) discusses about the wireless synchronization of PCI express (PCIe), USB technology, with hard drives. And the Wireless Display Extension (WDE) discusses about the synchronization with external monitors, Televisions, display port connectors, High definition devices etc,. With the help of wireless docking and enabling the WiGig technology in it the speed will be distributed with all the devices connected to the docking station. The internet access is also provided using the native Wi-Fi with the support of 802.11ad specification in the docking station.

Video streaming without interruption requires a stable flow of information and a constant delivery of data packets which is really difficult to be delivered through wireless technology, because of the intermittent interference from other network nodes and external radio sources.

WiGig multi gigabit speed technology with the help of its high frequency rates and minimal interferences can transfer even high definition videos from the source to an external device at an incomparable speed. With its specification compliance with A/V equipments, HDMI and display port interfaces it is as simple as you are connecting a dongle in your Television HDMI port to function in all of its signal optimization processes and stream the HD videos by connecting it with super fast Wi-Fi.

Current Investments in Wi-Fi might pose as a challenge for the adoption of WiGig, considering that both serve as an access technology. However, the applications of WiGig stretch beyond traditional access technologies and might in fact compound and supplement existing access technologies such as Wi-Fi. In fact, in 2010, the Wi-Fi alliance and WiGig alliance announced a cooperation agreement for multi-gigabit wireless networking. This agreement will enable both the alliances to share technology specifications for the development of a next-gen Wi-Fi Alliance certification program

supporting Wi-Fi operation in the 60 GHz frequency band. The cooperation also provides a good platform for the combined development of products supporting 60GHz with an opportunity to expand current Wi-Fi capabilities. WiGig has the ability to enhance the capabilities of Wi-Fi along with its utility, if and when the certification program for 60 GHz wireless gets completed successfully.

There are various assumptions that we have taken into consideration for market sizing and forecasting exercise. Few of global assumptions include political, economic, social, technological, and economic factors. For instance, exchange rates, one of the economic factors, are expected to have a moderate rate of impact on this market. Therefore, dollar fluctuations are expected to not seriously affect the forecasts in the emerging Asia Pacific (APAC) regions.

The report will help the market leaders/new entrants in this market in the following ways:

1. The report segments the market into WiGig enabled products, covering this market comprehensively. It provides the closest approximations of the revenue numbers for the overall market and the sub segments. The market numbers are further split across the different regions.
2. The report will help them better understand the competitor and gain more insights to better position their business. There is a separate section on competitive landscape, including competitor ecosystem, Mergers and Acquisition (M&A), and Venture Capital (VC) funding. Besides, there are company profiles of 10 top players in this market. In this section, market internals are provided that can put them ahead of the competitors.
3. The report helps them understand the pulse of the market. It provides information on key market drivers, restraints, challenges, and opportunities.

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