

802.11ad 60 GHz radio technologies are in the market today

- 11ad amendment published in 2012, 11ay amendment expected in 2020
- Supports short range, very high speed communications
- Provides multi-gigabit performance for in-room connectivity
- WiGig Wireless Docking stations on the market now
- From <http://www.wi-fi.org/discover-wi-fi/wigig-certified> :

Multi-gigabit, low latency connectivity.
Coming in 2016.

Industry momentum and user anticipation of 60 GHz technology is growing. WiGig CERTIFIED™ products operate in the 60 GHz frequency band and deliver multi-gigabit speeds, low latency, and security-protected connectivity between nearby devices. Popular use cases for WiGig® include cable replacement for popular I/O and display extensions, wireless docking between devices like laptops and tablet, instant sync and backup and simultaneous streaming of multiple, ultra-high definition and 4K videos.



Data rates*

MCS	Data Rate (Mb/s)
1	385
2	770
3	962.5
4	1155
5	1251.25
6	1540
7	1925
8	2310
9	2502.5
9.1	2695
10	3080
11	3850
12	4620
12.1	5005
12.2	5390
12.3	5775
12.4	6930
12.5	7507.5
12.6	8085

*Data rate for Single Carrier mode is extended from 4.62 Gbps to 8.085 Gbps during the development of the IEEE 802.11-2016 standards.

60 GHz Worldwide Spectrum

- Worldwide, unlicensed, spectrum availability
- 4 bands available in EU and Japan
- Recently expanded spectrum in U.S. from 57 – 71GHz, additional countries also considering expansion

