



WI-FI 6

X-RAYED

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Get 500+ Patents with high licensing Potential, 20+ Companies Selling Patents, 5+ Companies with Gem patents looking for an exit

The Domain

Wireless Fidelity Wi-Fi 6 is the most recent iteration of the Wi-Fi 6 network protocol and is a substantial upgrade over its predecessor. Wi-Fi 6 can be faster due to technologies like traffic prioritization, OFDMA, and beamforming. This new protocol is also more secure and uses new encryption technologies such as SAE. Wi-Fi 6, also known as 802.11ax, is the latest generation of Wi-Fi 6 technology, succeeding Wi-Fi 5 (802.11ac). It brings several enhancements and improvements over its predecessor, addressing the growing demands on wireless networks due to the increasing number of devices, data-hungry applications, and the proliferation of smart devices and IoT.

We X-rayed and analyzed the Wi-Fi 6 domain in the US through the intellectual property lens. And prepared the lists of the strongest patents and the companies that own them.



5 Patents with High Licensing Potential as Indicated by USPTO

The 5 of the seminal patents that are active in the Wi-Fi 6 domain. The strength factor of the patents is based on their core coverage of the technology. These patents have been used by USPTO to oppose a lot of other patents under novelty clauses.

Patent No.	Title	Active Until*	Owned By
US9674251B2	Mediating Content Delivery Via One Or More Services	03-26-2035	Qualcomm
US7881247B2	Method and apparatus for providing efficient precoding feedback in a MIMO wireless communication system	07-25-2029	Apple
US9820162B2	Adaptive CCA and TX power level adjustment for dense deployment of wireless networks	04-27-2035	Mediatek
US9832761B2	Communication system	06-07-2033	Sharp
US10615936B2	Method and apparatus for transmitting wireless local area network information	08-31-2036	Huawei

*Estimated expiry date

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The complete list of 500+ high-valued patents can be accessed via our full report.

Companies Open to Selling or Licensing their Gem Patents

A few companies that owned patents which can be seminal in the Wi-Fi 6 domain. Additionally, the list contains companies who are also keen on selling or licensing their patents, in general. Thus, the listed companies can be good for interested buyers or licensee of Wi-Fi 6 patents.

The list has been prepared by studying the past activities and trends of these companies. The activities include – transfers, mergers, licensing etc.

Company	Gem Patents
Qualcomm	113
Intel	81
LG Electronics	79
Apple	27
Huawei	21

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The complete list of these companies can be accessed via our full report.

Companies with Gem Patents Looking for an Exit

Companies owning patents which are abandoned or close to expiring in the Wi-Fi 6 domain because of no maintenance.

The list has been prepared by inspecting the patents with high potential in the Wi-Fi 6 domain and their present status in the patent office registry. Had these patents been maintained longer, they could have proved to be strong assets in their owner's portfolio.

Thus, the list showcases the opportunity to revive these high potential patents or buy the currently active ones that the companies may be willing to sell.

Company	Patents Given up	Patents Revival
Intel	8	1
Identifor	1	1

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Company	Patents Given up	Active Gem Patents
Qualcomm	9	113
Intel	8	81
LG Electronics	1	79

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Upcoming Maintenance Fees for Gem Patents

The Top Gem patents in the Wi-Fi 6 domain with upcoming maintenance fees due dates.

The list has been prepared by analyzing the most valuable patents in the Wi-Fi 6 domain and reviewing their issue dates, as well as their maintenance history. Furthermore, identified patents that require maintenance fees to be paid within the next six months or that are currently overdue.

Patent No.	Window	Fee	Surcharge Start Date	Fee including surcharge	Last Day to Pay
<u>US9379837B2</u>	7.5	3760	12-29-2023	4260	06-28-2024
<u>US9439161B2</u>	7.5	3760	03-07-2024	4260	09-06-2024
<u>US10609644B2</u>	3.5	2000	10-03-2023	2500	04-01-2024
<u>US8223625B2</u>	11.5	7700	01-18-2024	8200	07-17-2024
<u>US10687300B2</u>	3.5	2000	12-19-2023	2500	06-17-2024

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Entities with Capital Looking to Fund or Acquire Patents

This list was compiled by analyzing leading companies in the Wi-Fi 6 domain that have a track record of buying patents, generally, as well as the financial capacity to do so. These organizations could be potential patent buyers for Wi-Fi 6 related patents too, if they are interested in the domain.

Company	Patents Bought
Intel	721
Qualcomm	473
Marvell International	265
Apple	124
Atlas Global	105

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The complete list of these companies can be accessed via our full report.

Litigation History in Wi-Fi 6 Domain

The list has been prepared by analyzing the top companies that are involved in the highest number of litigation cases either in the role of plaintiff or defendant, in the Wi-Fi 6 domain.

Complainant	Case Count
Atlas Global Technologies	37
Mediatek	6
NXP USA	2
Memomi Labs	1

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Defendant	Case Count
NXP Semiconductors	6
D-Link	6
NXP USA	6
Avnet	6
Mediatek	2

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The complete list of these companies can be accessed via our full report.

5 Patents with Highest Litigation Cases

The list has been prepared by analyzing the patents in Wi-Fi 6 domain and identifying the ones with largest number of legal cases.

This can provide insight into the competitive landscape and the strength of a company's intellectual property portfolio in the Wi-Fi 6 domain.

Patent No.	Litigation Cases	Current Owner	Approved on	Active Until*
<u>US9763259B2</u>	13	Atlas Global	09-12-2017	11-26-2035
<u>US9917679B2</u>	10	Atlas Global	03-13-2018	01-18-2036
<u>US9531520B2</u>	8	Atlas Global	12-27-2016	03-23-2036
<u>US9628310B2</u>	3	Atlas Global	04-18-2017	03-23-2036
<u>US9729214B2</u>	2	NXP USA	08-08-2017	07-24-2035

*Estimated expiry date

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The complete list of these patents can be accessed via our full report.

Top Infringers in Wi-Fi 6 Domain

The list has been prepared by analyzing the litigation history in Wi-Fi 6 domain and identifying the companies that have the highest number of cases filed against them.

It may be useful for companies operating in the Wi-Fi 6 domain to understand the legal risks and challenges faced by their competitors and strategize accordingly.

Infringer	Case Count
Netflix	4
NXP	2
Google	2
Zoom	2
Mitel Networks	2

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Full report?



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