ThinkStation Wi-Fi Solutions

P3 Tiny, P3 Ultra SFF, P3 Tower
P3 Tiny Gen 2, P3 Ultra SFF Gen 2, P3 Tower Gen 2
P5, P7, P620, P8, PX



ThinkStation Wi-Fi Overview

Every ThinkStation desktop workstation has a supported, optional wireless networking (Wi-Fi) solution. Multiple solutions exist across the ThinkStation family, but each one is built upon an M.2 form factor PCIe Wi-Fi card. Some of the ThinkStations have a dedicated onboard M.2 Wi-Fi slot for this card, while others use a PCIe carrier card. Additionally, the antenna solutions and part numbers for the various Wi-Fi hardware components vary from one platform to the next.

This document will give you some guidance on selecting, ordering, and installing the various ThinkStation Wi-Fi solutions.

This table shows a quick snapshot of the Wi-Fi solutions for each platform. Click a platform name to jump to its page within this document.

Platform	Wi-Fi Solution	M.2 Wi-Fi Slot
P3 Tiny	Intel AX211 Intel AX201 Realtek RTL8852BE	Onboard
P3 Tiny Gen 2	Intel Wi-Fi 7 BE200	Onboard
P3 Ultra SFF	Intel AX211	Onboard
P3 Ultra SFF Gen 2	Intel Wi-Fi 7 BE200	Onboard
P3 Tower	Intel AX211	Onboard
P3 Tower Gen 2	Intel Wi-Fi 7 BE200	Onboard
P5	Intel AX211	Onboard
P7	Intel AX210	PCIe card
P620	Intel AC 9260 Intel AX210	PCIe card
P8	AMD RZ616	Onboard
PX	Intel AX210	PCIe card

P3 Tiny

P3 Tiny has a dedicated onboard Wi-Fi M.2 slot and supports the following three Wi-Fi modules:

- ***Intel Wi-Fi 6E AX211***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready), Intel vPro technology support
- ***Intel Wi-Fi 6 AX201***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.2 hardware ready)
- ***Realtek Wi-Fi 6 RTL8852BE***
  802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts Lists
There is no consolidated Wi-Fi option parts kit for P3 Tiny. The FRU parts below can be ordered to support each of the 3 supported Wi-Fi solutions. Parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

Intel Wi-Fi 6E AX211 FRU parts	
Intel AX211 Wi-Fi module	5W10V25811
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639
Wi-Fi 6E external antenna	5A30W89233
External antenna cable	04X2735
Wi-Fi 6E front antenna	5A30W89251

Intel Wi-Fi 6 AX201 FRU parts	
Intel AX201 Wi-Fi module	5W10V25775
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639
Wi-Fi 6E external antenna	5A30W89233
External antenna cable	04X2735
Wi-Fi front antenna	5A30W89210

Realtek Wi-Fi 6 RTL8852BE FRU parts	
Realtek RTL8852BE Wi-Fi module	5W10V25844
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639
Wi-Fi 6E external antenna	5A30W89233
External antenna cable	04X2735
Wi-Fi front antenna	5A30W89210

Note: *The P3 Tiny system BIOS contains a whitelist of the approved/qualified WiFi cards. If you attempt to use a different WiFi card, it will not work.*

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P3 Tiny Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p3_tiny_hmm.pdf

Back to document overview

P3 Tiny Gen 2

P3 Tiny Gen 2 has a dedicated onboard Wi-Fi M.2 slot and supports the following Wi-Fi module:

- ***Intel Wi-Fi 7 BE200***
  802.11be 2x2 Wi-Fi + Bluetooth 5.4, Intel vPro technology support

Note: *Wi-Fi operation (including Wi-Fi 6, Wi-Fi 6E, Wi-Fi 7, etc.) is subject to the regulatory requirements of each country. Bluetooth may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.*

Wi-Fi Parts Lists
There is no consolidated Wi-Fi option parts kit for P3 Tiny Gen 2. The FRU parts below can be ordered to support each of the 3 supported Wi-Fi solutions. Parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

Intel Wi-Fi 7 BE200 FRU parts	
Intel BE200 Wi-Fi module	5W11H85439
Wi-Fi Card Cover	01MN425
WiFi6e external antenna	5A30W89233
External antenna cable	04X2735
Front antenna	5A31F27753

Note: *The P3 Tiny Gen 2 system BIOS contains a whitelist of the approved/qualified WiFi cards. If you attempt to use a different WiFi card, it will not work.*

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P3 Tiny Gen 2 Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/ts_p3_tiny_gen2_hmm.pdf

Back to document overview

P3 Ultra SFF

P3 Ultra SFF has a dedicated onboard Wi-Fi M.2 slot and supports the following Wi-Fi module:

- ***Intel Wi-Fi 6E AX211***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready), Intel vPro support

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts List
Wi-Fi parts for P3 Ultra SFF can be purchased as a single option kit or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P3 USFF Wi-Fi Option Kit	
ThinkStation Intel Wi-Fi AX211 WLAN Module - P3	4XH1N92877

Intel Wi-Fi 6E AX211 FRU parts	
Intel AX211 Wi-Fi Module	5W10V25811
2 in 1 module group (cable + antenna)	5A31F27677
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P3 Ultra SFF Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p3_ultra_hmm.pdf

Back to document overview

P3 Ultra SFF Gen 2

P3 Ultra SFF Gen 2 has a dedicated onboard Wi-Fi M.2 slot and supports the following Wi-Fi module:

- ***Intel Wi-Fi 7 BE200***
  802.11be 2x2 Wi-Fi + Bluetooth 5.4, Intel vPro technology support

Note: *Wi-Fi operation (including Wi-Fi 6, Wi-Fi 6E, Wi-Fi 7, etc.) is subject to the regulatory requirements of each country. Bluetooth may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.*

Wi-Fi Parts List
Wi-Fi parts for P3 Ultra SFF Gen 2 can be purchased as a single option kit or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P3 USFF Wi-Fi Option Kit	
Intel Wi-Fi 7 BE200 WLAN Module	4XC1T98243

Intel Wi-Fi 7 BE200 FRU parts	
Intel BE200 Wi-Fi module	5W11H85439
2 in 1 module group (cable + antenna)	5A31F27677
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639

Note: *The P3 Ultra SFF Gen 2 system BIOS contains a whitelist of the approved/qualified WiFi cards. If you attempt to use a different Wi-Fi card, it will not work.*

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P3 Ultra SFF Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p3_gen2_ultra_sff_hmm.pdf

Back to document overview

P3 Tower

P3 Tower has a dedicated onboard Wi-Fi M.2 slot and supports the following Wi-Fi module:

- ***Intel Wi-Fi 6E AX211***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready), Intel vPro support

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts List
Wi-Fi parts for P3 Tower can be purchased as a single option kit or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P3 Tower Wi-Fi Option Kit	
ThinkStation Intel Wi-Fi AX211 WLAN Module - P3	4XH1N92877

Intel Wi-Fi 6E AX211 FRU parts	
Intel AX211 Wi-Fi Module	5W10V25811
Wi-Fi antenna	5A31F27716
Antenna cover	02CW509
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639

Note: *The P3 Tower system BIOS contains a whitelist of these approved/qualified WiFi cards. If you attempt to use a different WiFi card, it will not work.*

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P3 Tower Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p3_tw_hmm.pdf

Back to document overview

P3 Tower Gen 2

P3 Tower Gen 2 has a dedicated onboard Wi-Fi M.2 slot and supports the following Wi-Fi module:

- ***Intel Wi-Fi 7 BE200***
  802.11be 2x2 Wi-Fi + Bluetooth 5.4, Intel vPro technology support

Note: *Wi-Fi operation (including Wi-Fi 6, Wi-Fi 6E, Wi-Fi 7, etc.) is subject to the regulatory requirements of each country. Bluetooth may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.*

Wi-Fi Parts List
Wi-Fi parts for P3 Tower Gen 2 can be purchased as a single option kit or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P3 Tower Wi-Fi Option Kit	
Intel Wi-Fi 7 BE200 WLAN Module	4XH1N92877

Intel Wi-Fi 7 BE200 FRU parts	
Intel BE200 Wi-Fi module	5W11H85439
Wi-Fi antenna	5A31F27716
Antenna cover	02CW509
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P3 Tower Gen 2 Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p3_twr_gen2_hmm.pdf

Back to document overview

P5

P5 has a dedicated onboard Wi-Fi M.2 slot and supports the following Wi-Fi module:

- ***Intel Wi-Fi 6E AX211***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready), Intel vPro support

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts List
Wi-Fi parts for P5 can be purchased as a single option kit or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P5 Wi-Fi Option Kit	
ThinkStation Intel Wi-Fi 6E AX211 WLAN Module	4XC1L37930

Intel Wi-Fi 6E AX211 FRU parts	
Intel AX211 Wi-Fi Module	5W10V25811
Wi-Fi card cover	01MN425
M2 x 3mm screw	5S10U51639

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P5 Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p5_hmm.pdf

Back to document overview

P7

P7 uses a PCIe carrier card for the following M.2 Wi-Fi module:

- ***Intel Wi-Fi 6E AX210***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready), Intel vPro support

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts List
Wi-Fi parts for P7 can be purchased as a single option kit or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P7 Wi-Fi Option Kit	
ThinkStation Kit for AX210 WLAN Module - P7/PX	4XF1M87532
ThinkStation Intel Wi-Fi AX210 WLAN Module	4XC1L37931

Intel Wi-Fi 6E AX210 FRU parts	
Intel AX210 Wi-Fi module	5W10V25783
PCIe to m.2 riser card	5C50W00920
Screw with bracket for Wi-Fi card	00XD903
USB Bluetooth cable,600mm	5C10U58440
Internal front Wi-Fi antenna	5A30W89267
Internal rear Wi-Fi antenna	5A30W89268

FRU parts for use with P7 GeForce card configs	
Wi-Fi extended antenna kit	5A31F27743

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P7 Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p7_intel_hmm.pdf

Configuration notes:
- When installed in a system without a GeForce card, the Wi-Fi carrier card is installed in Slot 2
- When installed in a system with a GeForce card, the Wi-Fi carrier card is installed in Slot 5 and the Wi-Fi extended antenna kit listed above is required

Back to document overview

P620

P620 uses a PCIe carrier card for the following M.2 Wi-Fi modules:

- ***Intel Wireless-AC 9260***
  Wi-Fi 5, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1
- ***Intel Wi-Fi 6E AX210***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts List
Wi-Fi parts for P620 can be purchased as a single option kit (AX210 only) or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P620 Wi-Fi Option Kit	
ThinkStation Intel Wi-Fi AX210 WLAN Module	4XC1L37931

Intel Wireless-AC 9260 FRU parts	
Intel 9260 Wi-Fi module	01AX771
PCIe to m.2 riser card	01AJ901
External antenna	00XJ119
80mm antenna cable (need 2)	00XJ061
USB header cable	00XL361

Intel Wi-Fi 6E AX210 FRU parts	
Intel AX210 Wi-Fi module	5W10V25783
PCIe to m.2 riser card	01AJ901
External antenna	5A31F27683
80mm antenna cable (need 2)	00XJ061
USB header cable	5C10U58497

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P620 Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p620_hmm_en.pdf

Back to document overview

P8

P8 has a dedicated onboard Wi-Fi M.2 slot and supports the following Wi-Fi module:

- ***AMD Wi-Fi 6E RZ616***
  802.11ax 2x2 Wi-Fi + Bluetooth® 5.3

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts Lists
There is no consolidated Wi-Fi option parts kit for P8. The FRU parts below can be ordered to support each the supported Wi-Fi solution. Parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

AMD Wi-Fi 6E RZ616 FRU parts	
AMD RZ616 Wi-Fi module	5W10V25826
Wi-Fi 6E antenna kit	5A31F27728

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the P8 Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/p8_hmm.pdf

Back to document overview

PX

PX uses a PCIe carrier card for the following M.2 Wi-Fi module:

- ***Intel Wi-Fi 6E AX210***
  802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready), Intel vPro support

Note: *Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Wi-Fi Parts List
Wi-Fi parts for PX can be purchased as a single option kit or as individual FRU parts. Contact your Lenovo sales representative to purchase the option kit listed below. FRU parts, along with current availability and pricing, can be found by searching the desired part numbers at **https://support.lenovo.com/us/en/parts-lookup**

P7 Wi-Fi Option Kit	
ThinkStation Kit for AX210 WLAN Module - P7/PX	4XF1M87532
ThinkStation Intel Wi-Fi AX210 WLAN Module	4XC1L37931

Intel Wi-Fi 6E AX210 FRU parts	
Intel AX210 Wi-Fi module	5W10V25783
PCIe to m.2 riser card	5C50W00920
Screw with bracket for Wi-Fi card	00XD903
USB Bluetooth cable,600mm	5C10U58440
Internal front Wi-Fi antenna	5A30W89223
Internal rear Wi-Fi antenna	5A30W89224

Detailed installation/removal instructions for the Wi-Fi cards and associated hardware can be found in the PX Hardware Maintenance Manual:
https://download.lenovo.com/pccbbs/thinkcentre_pdf/px_hmm.pdf

Configuration Note: *The PCIe carrier card with M.2 Wi-Fi module is only supported in PCIe Slot 1 on PX.*

Back to document overview

Revision History

Version	Date	Author	Changes
1.0	8/28/2024	JP	Initial Version
1.1	6/15/2025	JP	Added adapter whitelist notes
1.2	3/31/2026	JP	Added Gen 2 adapters Added PX configuration note