LENOVO THINKSTATION P520C, P520, P720, & P920

WINDOWS 10 INSTALLATION





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Overview

The purpose of this document is to provide guidance for users on how to install a Windows 10 retail operating system on their ThinkStation P520c, P520, P720, and P920 systems.

Section 1 – BIOS & Pre-Installation Steps

The first step before installing Windows is to make sure BIOS is setup correctly. It is important to note which type of partitioning method (GPT or MBR) before attempting to install any operating system on their system.

- For UEFI/GPT installations (recommended):
 - Boot into BIOS by pressing the F1 key at the "Lenovo" splash screen.



• Select "Setup" from the screen indicated below.

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 Select the "Exit" menu option along the left column and set "OS Optimized Defaults" along the right column to "Enabled".



• Select "Yes" at the confirmation screen indicated below.



• Select F10 to "Save and Exit" BIOS.



- Insert the Windows 10 install media (either through USB or CD/DVD).
- Power on the system and press the F12 key whenever the following Lenovo splash screen appears.



 Select the Windows bootable installation media "UEFI" option from the F12 boot menu.

Startup Device Menu:
SATA 7: PLDS DVDROM DH16D8SH
LEFI: PLDS DVDROM DH16D8SH
Network 1:
└── UEFI: IPV4 Intel(R) Ethernet Connection (H) I219–LM
└── UEFI: IPV6 Intel(R) Ethernet Connection (H) I219–LM
Network 2:
└── UEFI: IPV4 Intel(R) I210 Gigabit Network Connection
└── UEFI: IPV6 Intel(R) I210 Gigabit Network Connection
Enter Setup
↑ and ↓ to move selection

- For Legacy/MBR installations:
 - Boot into BIOS by pressing the F1 key at the "Lenovo" splash screen.



• Select "Setup" from the screen indicated below.





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• Select the "Exit" menu option along the left column and set "OS Optimized Defaults" along the right column to "Disabled".



 Select "Startup" menu option along the left column and select the "CSM Configuration" option along the right column.



• Select the "Storage" option ROM and set the pull-down menu to "Legacy".

			dei	
	Satur	Network	Legacy	\sim
S	Setup	Controls the execution of UEFI and Leg	acy PXE OpROM	
ŵ	Main	Storage	UEFI	\sim
0000	Devices	Controls the execution of UEFI and Leg	acy Storage OpROM	
-st	Advanced	Video	Legacy	\sim
=	Power	Controls the execution of UEFI and Leg	acy Video OpROM	
	Security	Other PCI devices	Legacy	\sim
2	Startup	Determines OpROM execution policy f	or devices other than Network, Storage	or Video
_				
	opovo			
	enovo.			
Ľ	-CNOVO.			
L	-CNOVO . UEFI Setup Utility			

• Select F10 to "Save and Exit" BIOS.



- Insert the Windows 10 install media (either through USB or CD/DVD).
- Power on the system and press the F12 key whenever the following Lenovo splash screen appears.



 Select the Windows bootable installation media "Legacy" option from the F12 boot menu.

Startup Device Menu:
SATA 7: PLDS DVDROM DH16D8SH Legacy: PLDS DVDROM DH16D8SH UEFI: PLDS DVDROM DH16D8SH Network 1: Legacy: IBA CL Slot 00FE v0110 UEFI: IPV4 Intel(R) Ethernet Connection (H) I219-LM UEFI: IPV6 Intel(R) Ethernet Connection (H) I219-LM Network 2: Legacy: IBA GE Slot 0200 v1555 UEFI: IPV4 Intel(R) I210 Gigabit Network Connection UEFI: IPV6 Intel(R) I210 Gigabit Network Connection Enter Setup
↑ and ↓ to move selection

Section 2 – Windows 10 Installation

Follow the steps below to proceed with the Windows 10 installation.

1. Select the following Language, Time, and Keyboard Layout and select "Next".

📫 Windows Setup
- Windows ⁻
Language to install: English (United States)
Time and currency format: English (United States)
Keyboard or input method: US
Enter your language and other preferences and click "Next" to continue. © 2015 Microsoft Corporation. All rights reserved.

2. Select "Install now" option.



3. Enter the product key to activate Windows and press "Next", or press "Skip" to enter a valid product key later.



4. Check the box next to "I accept the license terms" and select "Next".



- 5. Choose the type of installation to perform.
 - <u>To upgrade to Windows 10 from an earlier version of Windows</u>, select the "Upgrade" option below.
 - <u>To perform a clean OS installation</u>, select "Custom: Install Windows only (advanced)" option below. *For instructional purposes, this option was selected below.*

Windows Setup	
Which type of installation do you v	vant?
Upgrade: Install Windows and keep fi The files, settings, and applications are mov available when a supported version of Wind	les, settings, and applications ed to Windows with this option. This option is only ows is already running on the computer.
Custom: Install Windows only (advan The files, settings, and applications aren't m make changes to partitions and drives, start recommend backing up your files before yo	ced) oved to Windows with this option. If you want to the computer using the installation disc. We u continue.
<u>t</u> elp me decide	

6. Select the "Load driver" option to load the appropriate driver for the storage device.

3	🔏 Windows Se	tup					X
	Where do y	ou want to instal	l Windows?				
	Na	me		Total size	Free space	Туре	
	<					2	
	€ <u>R</u> efresh	$\times_{\underline{D}}$ elete		<u>F</u> ormat	-∦- N <u>e</u> w		
	🛞 <u>L</u> oad driver	Extend	1				
A	We couldn't fir	nd any drives. To get a	storage driver, c	lick Load driver.			
			\searrow			<u>N</u> e	xt

- For storages devices attached to the Intel storage controller, load the Intel Rapid Storage Technology enterprise (RSTe) driver.
 - Select "Browse", and browse to the CD, DVD, or USB flash drive to where the storage device driver is located and select "OK".

Load driver	×
To install the device driver for y driver files, and then click OK.	our drive, insert the installation media containing the
Note: The installation media ca	be a CD, DVD, or USB flash drive.
	Browse OK Cancel

Browse for Folder
Browse to the driver, and then click OK.
✓ 👡 Removable Disk (C:)
✓ Intel RSTe
📜 Linux
✓] Win10
✓
✓] 1K1RAD137
RSTe_5.2.0.1215_F6-drivers
> 📙 RSTe_5.2.Q.1215_Install
> 📙 Win7 🦙
> 🥥 CD Drive (D:) ESD-ISO
> 👡 Boot (X:)
OK Cancel

- For storages devices attached to the Broadcom controller, load the Broadcom storage driver.
 - $\circ~$ Select "Browse", browse to the CD, DVD, or USB flash drive to where the storage device driver is located and select "OK".



~	-	Rer	mova	able Dis	k (C	:)	^
	>		Inte	RSTe			
	~		LSI	Card			
		>		Linux			
		~		Window	NS		
			~	138	BSA	5064	
				~	1]	8SAS064	
				~		Driver_7.701.03.00	
					-	Win10_x64	
						Win7 x64	
				>		LSAV002,220,000,000	

8. Select the driver to install.

🚱 💰 Windows Setup	X
Select the driver to install	
Intel(R) RSTe Volume Management Device(VROC) (C:\Intel RSTe\Win10\1K1RAD137\1K1RAD137\1	
< >	
✓ Hide drivers that aren't compatible with this computer's hardware.	
Br <u>o</u> wse <u>R</u> escan	<u>N</u> ext

9. Select the drive to install Windows and select "Next" at the bottom.

🄰 💰 Windows Set	tup			<u> </u>
Where do y	ou want to install Wind	ows?		
Na	me	Total	size Free space	Туре
Driv	ve 1 Unallocated Space	906.2	2 GB 906.2 GB	
				_
<				>
Refresh	Delete	Eormat	<mark>∦</mark> N <u>e</u> w	
💿 Load driver	Extend			
				Next

10. Installing Windows screen.



11. After the installation completes, the system will automatically reboot. If no product key was entered above, then it'll prompt to enter a product key again. Either enter the product key here and select "Next" or select "Do this later" at the bottom left.

its time to en	ter the prod	ист кеу		
Look for it on the box that yo Windows, or on the Certificat inside the battery compartme is plugged in.)	ur Windows DVD came in, i e of Authenticity sticker, wh int of your laptop. (It's okay	n an email that shows th ich you'll find on your P to remove the battery,	at you bought C, power adapter, or to long as your laptop	
Enter the product key				
t looks similar to this: XXXXX	-xxxxx-xxxxx-xxxxx-xxx	xx		
It looks similar to this: XXXXX	-xxxxx-xxxxx-xxxxx-xxx	xx		
It looks similar to this: XXXXX	-xxxxx-xxxxx-xxxxx-xxx	xx		
It looks similar to this: XXXXX	-xxxxx-xxxxx-xxxxx-xxx	xx		
t looks similar to this: XXXXX	-xxxxx-xxxxx-xxxxx-xxx	XX		
t looks similar to this: XXXXX	-xxxxxx-xxxxxx-xxxx	XX		
It looks similar to this: XXXXX Privacy statement	-xxxxx-xxxxx-xxxx	XX		

12. Select "Use Express Settings" at the bottom right to use the default settings or select "Customize settings" at the bottom left. For instructional purposes, "Use Express settings" was selected.

Get going fast			
Change these at any time. Select Use Express setting	gs to:		
Personalize your speech, typing, and inking input by s other associated input data to Microsoft. Let Microsof recognition platforms.	ending contacts and calendar de ft use that info to improve the su	tails, along with ggestion and	
Let Windows and apps request your location, includin personalize your experiences. Send Microsoft and trus location services.	g location history, and use your a sted partners some location data	dvertising ID to to improve	
Help protect you from malicious web content and use browsing, and make your overall experience better in sent to Microsoft.	e page prediction to improve read Windows browsers. Your browsin	ling, speed up Ig data will be	
Automatically connect to suggested open hotspots ar	nd shared networks. Not all netwo	orks are secure.	
Send error and diagnostic information to Microsoft.			
	k		
Learn more			
Customize settings			

13. Create an account by typing a "User name". Optionally, type a password to make it secure.

If you want to use a password, ch others to quess.	oose something that v	rill be easy for you to re	member but hard for	
Who's going to use this PC?				
User name				
Make it secure.				
Enter password				
Re-enter password				
Password hint				

14. Windows 10 desktop screen.



15. At this point, download and install the appropriate device drivers, i.e. Intel Chipset, Intel AMT, Ethernet, Graphics, etc. The device drivers can be found on the Lenovo Support website <u>here</u>.

Section 3 – Upgrading to Windows 10 using Media Creation Tool

Follow the steps below for instructions on how to upgrade to Windows 10 using Microsoft 'media creation tool' from Microsoft's website linked below. It is important to note that to use Microsoft's media creation tool, a genuine Microsoft license key is necessary.

http://windows.microsoft.com/en-us/windows-10/media-creation-tool-install

- 1. Once the user downloads the appropriate 'media creation tool' from Microsoft's website (linked above), double-click the icon to launch the executable.
- 2. Select "Upgrade this PC now" and select "Next".



3. Accept the License terms.



4. Select "Install" to start the installation. It's important to note, by default, Windows will keep any existing settings, personal files, and apps.





Section 4 – Revision History

Version	Date	Author	Changes/Updates
1.0	11/8/2017	Jason Moebs	Initial launch release