

Dell systems with the Intel Skylake or Braswell Chipset cannot boot to Dell Windows 7 media due to no USB 2.0

This article provides the information on Dell systems with the Intel Skylake or Braswell Chipset cannot boot to Dell Windows 7 media. This issue occurs because systems with the Intel Skylake Chipset do not have USB 2.0

## Cannot boot to Windows 7 Media.

You may encounter a situation when attempting to install Windows 7 from Dell branded Windows 7 USB media, you receive a driver error as indicated below:

ired CD/DVD drive device driver is m it now. If the Windows installation media is			D, or USB flash drive, please	·
If the Windows installation media is	in the CD/DVD drive, you			
		u can sately remove i	t for this step.	
	Browse	ОК	Cancel	
				_)
		Browse	Browse OK	Browse OK Cancel

Updating the system BIOS or changing the USB port for the installation media has no effect on the issue.

This issue occurs because systems with the Intel Skylake or Braswell Chipset do not have USB 2.0. All ports are USB 3.0 and the Windows 7 installation USB media does not contain the required drivers to install Windows 7 on the affected system.

The systems listed below are affected by this issue:

ChengMing 3967
Dell Embedded Box PC 3000
Dell Embedded Box PC 3000 OEM
Dell Embedded Box PC 5000
Dell Embedded Box PC 5000 OEM
Dell Legacy Adapter LD17
Dell Precision Tower 3420

Dell systems with the Intel Skylake or Braswell Chipset cannot boot to Dell Windows 7 media ... http://www.dell.com/support/article/us/en/19/SLN300564/dell-systems-with-the-intel-skylake-o...

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Dell Precision Tower 3620
nspiron 11 3162/3164
nspiron 14 3459
nspiron 15 3559
nspiron 15 7000 Series 7559
nspiron 24 5459 AIO
nspiron 3052
nspiron 3059
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nspiron 3252
nspiron 3263
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nspiron 3552
nspiron 3650
nspiron 5457
nspiron 5459
nspiron 5557
nspiron 5559
nspiron 5759
nspiron 7557
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_atitude 3160
_atitude 3350
_atitude 3460
_atitude 3470
_atitude 3560
_atitude 3570
_atitude 5404 Rugged
_atitude 7202 Rugged Tablet
_atitude 7204 Rugged
_atitude 7214 Rugged Extreme
_atitude 7370
_atitude 7404 Rugged
_atitude 7414 Rugged
_atitude E5270 Laptop
_atitude E5470
_atitude E5570
_atitude E7270
_atitude E7270
0.151.0010
OptiPlex 3040 OptiPlex 3046
OptiPlex 3240 All-in-One OptiPlex 5040
OptiPlex 7040
OptiPlex 7440 AIO
Precision 3510
Precision 5510

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Precision 7510
Precision 7710
Vostro 3052
Vostro 3250
Vostro 3252
Vostro 3459
Vostro 3559
Vostro 3561
Vostro 3650
Vostro 3653
Vostro 5450
Vostro 5459
XPS 13 9350
XPS 8900

i Intel has released a USB 3.0 utility for Windows: Windows 7\* USB 3.0 Creator Utility (https://downloadcenter.intel.com/download /25476/Windows-7-USB-3-0-Creator-Utility)

The utility automates the process to create a Windows 7\* installation image to include USB 3.0 drivers.

## Requirements:

- Windows 8.1, 64-bit\*
- Windows® 10, 64-bit\*
- Intel® NUC products that have only USB 3.0 ports.

View the Readme file from the link above for further instalation instructions

A Guide with Examples on how to Install Windows 7 OEM Operating Systems on Skylake Systems with Ntlite

USB 3.0 Drivers require to be injected to the .ISO for the USB stick to be recognized correctly as does the Storage driver need injected during the install to make the NVMe/SSD visible.

Here is how to clone an OEM USB stick and add the necessary drivers:

You will require

1 x OEM USB - this is an OEM only, not recovery USB

1 x Blank USB 3.0 Drive – 8GB Formatted FAT32

1 x Working System

Insert OEM USB into a working system

You may be able to download the Dell OEM ISO from here (//www.dell.com/support/home/Drivers/OSISO) if the USB is not available

Copy contents of OEM USB to the Blank USB - Drag and Drop,

Download https://www.ntlite.com/download/ (https://www.ntlite.com/download/)

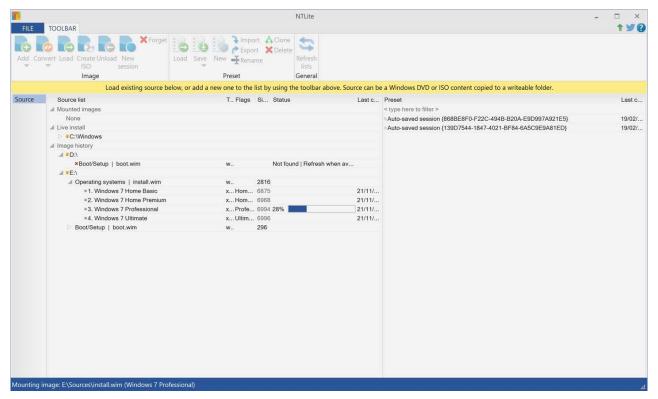
Insert newly copied USB and open Ntlite.

If the USB flash drive is not seen, click the Add button to add the dive to the list.

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		rce below, or add a new one to the list by using the toolbar abo	ve. Source can be	e a Windows DVD or ISO content copied to a writeable folder.	
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3. Windows 7 Professional	x Profe 6994	21/11/		
•4. Windows 7 Ultimate	x Ultim 6996	21/11/		
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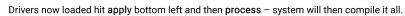


Now we want to select drivers on the left hand pane and then select add.inf. \*\*This is adding drivers to the install.wim from wherever you have saved them\*\*

Note: If the system is being built in UEFI then use the IRST driver (//www.dell.com/support/home/us/en/19/Drivers /DriversDetails?driverId=28J5R&fileId=3529535185&osCode=W764&productCode=latitude-e5270-laptop&languageCode=en& categoryId=SA).

The USB 3.0 Driver can be downloaded here (//www.dell.com/support/home/Drivers/Drivers/Details?driverId=6DVVG)

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t-Set	*Microsoft Basic Render Driver
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	*Microsoft UEFI-Compliant System
	Microsoft Virtual Drive Enumerator
	*Microsoft Windows Management Interface for ACPI
	*Motherboard resources
	Numeric data processor
	*PCI Express Root Complex
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	*PCI standard ISA bridge
	*PCI-to-PCI Bridge
	Plug and Play Software Device Enumerator
	Programmable interrupt controller
	System CMOS/real time clock
	*System timer
	*UMBus Root Bus Enumerator
	*Volume Manager
	al =Other devices
	⇒3D Video Cuntroller
	»8CM2045A0
	Network Controller
	PCI Data Acquisition and Signal Processing Controller
	PCI Device
	PCI Memory Controller
	PCI Simple Communications Controller
	⇒SM Bus Controller
	al + Universal Serial Bus controllers
	Intel(R) USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
	+USB Composite Device
	+ USB Root Hub (xHCI)
	Storage Volumes
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		PCI Data Acquisition and Signal Processing Controller	Min
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		=PCI Memory Controller	
		PCI Simple Communications Controller     SM Bus Controller	Min.
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		*USB Composite Device	Fou.
		+USB Root Hub (xHCI)	Min
		Storage Volumes	
		wPortable Devices	

Now we also want to follow the exact same steps above but this time inject the USB and storage drivers in the boot.wim as shown below. \*\*This is needed so the operating system recognizes USB ports on first boot.\*\*

Once done click apply and Process when everything is added.

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	.J Live install					Auto-saved session (8688E8F0-F22C-4948-820A-E9D997A921E5)	19
	C:/Windows					Auto-saved session (139D7544-1847-4021-8F84-6A5C9E9A81ED)	19
	al Image history						
	# #D:\						
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	+3. Windows 7 Professional		xProfe	. 6981	22/02/		
	=4. Windows 7 Ultimate		x Ultim	. 6996	21/11/		
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	+ 1. Microsoft Windows PE (x64)		x9	621	16/02/		
	+2. Windows 7 Setup		x «none:	> 1497 42%	16/02/		

After adding drivers to the boot.wim hit apply and process. Once completed System should now boot successfully from USB and install OEM Windows 7

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