

Note: You can press the F9 key to restore to the default settings.

Main menu

When you enter the ThinkPad Setup program, you will first see the **Main** menu as follows:

- **UEFI BIOS Version**
- **UEFI BIOS Date (Year-Month-Day)**
- **Embedded Controller Version**
- **ME Firmware Version**
- **Machine Type Model**
- **System-unit serial number**
- **System board serial number**
- **Asset Tag**
- **CPU Type**
- **CPU Speed**
- **Installed memory**
- **UUID**
- **MAC address (Internal LAN)**
- **Preinstalled OS License**
- **UEFI Secure Boot**

Config menu

To change the configuration of your computer, select the **Config** tab from the ThinkPad Setup menu.

The following table lists the **Config** menu items. Default values are in **boldface**. The menu items might change without notice. Depending on the model, the default value might vary.

Attention: The default configurations are already optimized for you. Improper change of the configurations might cause unexpected results.

Table 2. Config menu items

Menu item	Submenu item	Selection	Comments
Network	Wake On LAN	<ul style="list-style-type: none">• Disabled• AC Only• AC and Battery	<p>Enable the computer to power on when the Ethernet controller receives a magic packet (a special network message).</p> <p>If you select AC Only, Wake on LAN is enabled only when the ac power adapter is attached.</p> <p>If you select AC and Battery, Wake on LAN is enabled with any power sources.</p> <p>Notes:</p>

Table 2. Config menu items (continued)

Menu item	Submenu item	Selection	Comments
			<ul style="list-style-type: none"> The magic packet type Wake on LAN requires ac power. The Wake on LAN function does not work when a hard disk password is set.
	Ethernet LAN Option ROM (for Legacy Only boot mode or Both with Legacy first)	<ul style="list-style-type: none"> Disabled Enabled 	Loads the Ethernet LAN Option ROM to enable startup from an integrated network device.
	UEFI IPv4 Network Stack (for UEFI Only boot mode or Both with UEFI first)	<ul style="list-style-type: none"> Disabled Enabled 	Enable or disable Internet Protocol Version 4 (IPv4) network stack for the UEFI environment.
	UEFI IPv6 Network Stack (for UEFI Only boot mode or Both with UEFI first)	<ul style="list-style-type: none"> Disabled Enabled 	Enable or disable Internet Protocol Version 6 (IPv6) network stack for UEFI environment.
	UEFI PXE Boot Priority (for Both with UEFI first boot mode, and IPv6 and IPv4 stacks are both enabled.)	<ul style="list-style-type: none"> IPv6 First IPv4 First 	Select network stack priority for UEFI PXE boot.
USB	USB UEFI BIOS Support	<ul style="list-style-type: none"> Disabled Enabled 	Enables or disables boot support for USB storage devices.
	Always-On USB	<ul style="list-style-type: none"> Disabled Enabled 	If you select Enabled , the external USB devices can be charged through USB connectors even when the computer is in low-power mode (sleep, hibernate, or power-off).
	Always-On USB - Charge in Battery Mode	<ul style="list-style-type: none"> Disabled Enabled 	If you select Enabled , external USB devices can be charged through USB connectors even when the system is in sleep or hibernation, or is power-off mode and in battery operation.
	USB 3.0 Mode	<ul style="list-style-type: none"> Disabled Enabled Auto 	<p>Set the USB 3.0 controller mode for the ports shared between USB 2.0 and USB 3.0 controllers.</p> <p>If you select Auto, it enables you to connect and route appropriate USB 3.0 or USB 2.0 connectors.</p>

Table 2. Config menu items (continued)

Menu item	Submenu item	Selection	Comments
			<p>If you select Enabled, it enables USB 3.0 mode and allows USB 3.0 to be supported in the operating system.</p> <p>If you select Disabled, it disables and hides the USB 3.0 controller, and USB 3.0 connectors will work as USB 2.0 connectors.</p>
Keyboard/Mouse	TrackPoint	<ul style="list-style-type: none"> • Disabled • Enabled 	<p>Enable or disable the built-in TrackPoint pointing device.</p> <p>Note: If you want to use an external mouse, select Disabled.</p>
	Trackpad	<ul style="list-style-type: none"> • Disabled • Enabled 	<p>Enable or disable the built-in trackpad.</p> <p>Note: If you want to use an external mouse, select Disabled.</p>
	Fn and Ctrl Key swap	<ul style="list-style-type: none"> • Disabled • Enabled 	<p>Enable exchanges of Fn and Ctrl key action at the bottom-left of the keyboard.</p> <p>Disabled: Fn key and Ctrl key behavior is as printed on the keyboard.</p> <p>Enabled: Fn key works as Ctrl key. Ctrl key works as Fn key.</p>
	F1–F12 as primary function	<ul style="list-style-type: none"> • Disabled • Enabled 	<p>Enable the F1–F12 function or the special function printed as an icon on each key as the primary function.</p> <p>Enabled: Executes the F1–F12 function.</p> <p>Disabled: Executes the special function.</p> <p>To temporarily switch the above two options, press Fn+Esc to enable FnLock. The FnLock indicator is on when FnLock is enabled.</p>
	Fn Sticky key	<ul style="list-style-type: none"> • Disabled • Enabled 	<p>When the option is enabled, you can press the Fn key to keep it in a pressed</p>

Table 2. Config menu items (continued)

Menu item	Submenu item	Selection	Comments
			condition; then press the desired function key. The action is equivalent to pressing the required key simultaneously with the Fn key. When you press the Fn key twice, the state is locked until you press the Fn key again.
Display	Boot Display Device	<ul style="list-style-type: none"> • ThinkPad LCD • Analog (VGA) • Digital on ThinkPad • Display on Dock 	<p>Select the display device that is to be activated at boot time. This selection is effective for boot time, password prompt, and ThinkPad Setup.</p> <p>Digital on ThinkPad is the Mini DisplayPort connector on your computer.</p> <p>Display on dock is DisplayPort, DVI, or VGA connector on a docking station.</p>
	Video mode on dock	<ul style="list-style-type: none"> • Standard • Advanced 	<p>In Standard mode, the Integrated Graphics turns on dock displays.</p> <p>In Advanced mode, the Discrete Graphics turns on dock displays.</p>
	Discrete GFX Perf Mode	<ul style="list-style-type: none"> • Balanced • High performance 	<p>Balanced: This is a mode to manage system thermal and discrete graphics performance in balance.</p> <p>High Performance: This is a mode to have highest discrete graphics performance.</p>
Power	Intel SpeedStep® technology	<ul style="list-style-type: none"> • Disabled • Enabled <p>Mode for AC</p> <ul style="list-style-type: none"> • Maximum Performance • Battery Optimized <p>Mode for Battery</p> <ul style="list-style-type: none"> • Maximum Performance • Battery Optimized 	<p>Select the mode of Intel SpeedStep technology at runtime.</p> <ul style="list-style-type: none"> • Maximum Performance: Always the highest speed • Battery Optimized: Always the lowest speed • Disabled: The highest speed, and runtime is not supported.
	Adaptive Thermal Management	<p>Scheme for AC</p> <ul style="list-style-type: none"> • Maximize Performance 	Select a thermal management scheme to use.

Table 2. Config menu items (continued)

Menu item	Submenu item	Selection	Comments
		<ul style="list-style-type: none"> Balanced <p>Scheme for Battery</p> <ul style="list-style-type: none"> Maximize Performance Balanced 	<p>Maximize Performance: Reduce microprocessor throttling.</p> <p>Balanced: Balance sound, temperature, and performance.</p> <p>Note: Each scheme affects fan sound, temperature, and performance.</p>
	Optical Drive Speed	<ul style="list-style-type: none"> High Performance Normal Silent 	Set the speed of the optical drive to the desired performance.
	CPU Power Management	<ul style="list-style-type: none"> Disabled Enabled 	Enable or disable the power-saving feature that stops the microprocessor clock automatically when there are no computer activities. Normally, it is not necessary to change the setting.
	Express Card Speed	<ul style="list-style-type: none"> Generation 1 Automatic 	Set the transfer speed of the ExpressCard to the desired level of performance. The Automatic option enables the ExpressCard to specify the transfer speed it supports.
	PCI Express Power Management	<ul style="list-style-type: none"> Disabled Enabled 	<p>Enable or disable a feature that automatically adjusts power management when there is no PCI Express activity.</p> <p>Normally, it is not necessary to change the setting.</p>
	Power On with AC Attach	<ul style="list-style-type: none"> Disabled Enabled 	<p>Enable or disable the feature that powers on the system when the ac power adapter is attached.</p> <p>If you select Enabled, the system is powered on when the ac power adapter is attached. If the system is in hibernate state, the system resumes normal operation.</p> <p>If you select Disabled, the system is not powered on nor resumed when the ac power adapter is attached.</p>

Table 2. Config menu items (continued)

Menu item	Submenu item	Selection	Comments
	Intel Rapid Start Technology	<ul style="list-style-type: none"> Disabled Enabled <p>Enter after:</p> <ul style="list-style-type: none"> Immediately 1 minute 2 minutes 5 minutes 10 minutes 15 minutes 30 minutes 1 hour 2 hours 3 hours 	<p>To use this feature, a special partition on the solid-state drive is required.</p> <p>When enabled, the computer enters a lower power state after the specified time in sleep state. And it takes only seconds to resume normal operation.</p>
Beep and Alarm	Password Beep	<ul style="list-style-type: none"> Disabled Enabled 	<p>Enable this option to have a beep sound when the system is waiting for a power-on, hard disk, or supervisor password. Different beeps will sound when the entered password matches or does not match the configured password.</p>
	Keyboard Beep	<ul style="list-style-type: none"> Disabled Enabled 	<p>Enable this option to have a beep sound when unmanageable key combination are pressed.</p>
Serial ATA (SATA)	SATA Controller Mode Option	<ul style="list-style-type: none"> AHCI RAID (for RAID models only) 	<p>For RAID models, the option RAID is enabled by default.</p>
CPU	Core Multi-Processing	<ul style="list-style-type: none"> Disabled Enabled 	<p>Select Enabled to enable additional execution core units within a CPU.</p> <p>Select Disabled to enable only one execution core unit within a CPU.</p>
	Intel Hyper-Threading Technology	<ul style="list-style-type: none"> Disabled Enabled 	<p>Select Enabled to enable additional CPU threads. These Threads appear as additional processors but share some resources with the other threads within a CPU.</p> <p>Select Disabled to enable only one threads within each execution core unit.</p>

Table 2. Config menu items (continued)

Menu item	Submenu item	Selection	Comments
Intel AMT	Intel AMT Control	<ul style="list-style-type: none"> Disabled Enabled Permanently Disabled 	<p>If you select Enabled, Intel Active Management Technology (AMT) is configured and additional setup items are provided in Management Engine BIOS Extension (MEBx) Setup.</p> <p>If you select Permanently Disabled, you will never be able to enable it again. Be cautious when you want to use this option.</p> <p>Note: You can enter the MEBx Setup menu by pressing the Ctrl+P key combination in the Startup Interrupt Menu window. To display the Startup Interrupt Menu window, press the black button or Enter key during the power-on self-test (POST).</p>
	CIRA Timeout	0-255 Note: The default value is 60 seconds.	<p>Set the timeout option for CIRA connection to be established. Selectable second values are from 1 to 254.</p> <p>If you select 0, use 60 seconds as the default timeout value.</p> <p>If you select 255, the waiting time for establishing a connection is unlimited.</p>
	Console Type	<ul style="list-style-type: none"> PC-ANSI VT100 VT100+ VT-UTF8 	<p>Select the console type for AMT.</p> <p>Note: This console type should match the Intel AMT remote console.</p>

Date and Time menu

To change the date or time of your computer, select the **Date/Time** tab from the ThinkPad Setup menu. Then do the following:

1. Use the cursor keys to select **System Date** or **System Time**.
2. Type a date or time.

Security menu

To change the security settings of your computer, select the **Security** tab from the ThinkPad Setup menu.

The following table lists the **Security** menu items. Default values are in **boldface**. The menu items might change without notice. Depending on the model, the default value might vary.

Attention: The default configurations are already optimized for you. Improper change of the configurations might cause unexpected results.

Table 3. Security menu items

Menu item	Submenu item	Selection	Comments
Password	Hardware Password Manager	<ul style="list-style-type: none"> Disabled Enabled 	Manage your power-on password, supervisor password, and your hard disk passwords.
	Supervisor Password	<ul style="list-style-type: none"> Disabled Enabled 	Refer to “Supervisor password” on page 52.
	Lock UEFI BIOS Settings	<ul style="list-style-type: none"> Disabled Enabled 	Enable or disable the function that protects items in ThinkPad Setup from being changed by a user who does not have the supervisor password. By default, this is set to Disabled . If you set the supervisor password and enable this function, no one but you can change items in the ThinkPad Setup program.
	Password at unattended boot	<ul style="list-style-type: none"> Disabled Enabled 	If you select and enable Password at unattended boot , a password prompt is displayed when the computer is turned on, from either a power-off state or hibernation state. If you select Disabled , no password prompt is displayed; the computer goes ahead and loads the operating system. To prevent unauthorized access, set the user authentication on the operating system.
	Password at restart	<ul style="list-style-type: none"> Disabled Enabled 	If you select and enable Password at restart , a password prompt is displayed when you restart the computer. If you select Disabled , no password prompt is displayed; the computer goes ahead and loads the operating system. To prevent unauthorized