## Config

### Network

| | |
|---|---|
| Wake On LAN | [Disabled] |
| UEFI IPv4 Network Stack | [Enabled] |
| UEFI IPv6 Network Stack | [Enabled] |
| UEFI PXE Boot Priority | [IPv4 First] |
| Wake by WiGig Dock | [Disabled] |

Item Specific

AC Only: Wake O
function works
when AC is atta
AC and Battery:
On LAN function
with both AC an
battery.
Note that AC is
required with n
packet type Wak
LAN.
Wake On LAN fur
does not work w
Hard Disk Passw
set.

| | | | |
|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Def |
| Esc | Exit | ←→ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and |

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# ThinkPad Setup

## USB

| | Item Specific Hel |
|---|---|
| USB UEFI BIOS Support [Enabled]<br>Always On USB [Disabled] | Enable/Disable UEFI<br>BIOS support for US<br>[Disabled] Disables<br>boot with USB<br>diskette, USB memor<br>key and USB optical<br>drive. This frees<br>16KB of high memory<br>for loading DOS<br>device drivers.<br>[Enabled] Allows bo<br>with USB diskette,<br>USB memory key or U<br>optical drive. |

| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
|---|---|---|---|---|---|---|---|
| Esc | Exit | ←→ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |

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# ThinkPad Setup

## Keyboard/Mouse

| | | Item Specific Help |
|---|---|---|
| **TrackPoint** | [Enabled] | Enables or disables |
| Trackpad | [Enabled] | built-in TrackPoint. |
| | | [Disable] Built-in |
| Fn and Ctrl Key swap | [Disabled] | TrackPoint is |
| Fn Sticky Key | [Disabled] | disabled. |
| F1-F12 as Primary Function | [Enabled] | [Enable] Built-in |
| | | TrackPoint is enabled. |

| | | | | | | |
|---|---|---|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 Setup Defaults |
| Esc | Exit | ←→ | Select Menu | Enter | Select ▶ Sub-Menu | F10 Save and Exit |

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# ThinkPad Setup

## Display

| | | Item Specific Help |
|---|---|---|
| Boot Display Device | [ThinkPad LCD] | Select a display device for boot. |
| Shared Display Priority | [Display on dock] | |
| Total Graphics Memory | [256MB] | [DisplayPort] Mini DisplayPort(TM) connector on ThinkPad. [HDMI] HDMI connector on ThinkPad. [Display on dock] Display connectors on dock. Boot screen is cloned to all displays on dock. |
| Boot Time Extension | [Disabled] | |

F1    Help      ↑↓   Select Item    +/-     Change Values       F9    Setup Defaults
Esc   Exit      ↔    Select Menu     Enter   Select ▶ Sub-Menu   F10   Save and Exit

# ThinkPad Setup

## Power

|  |  |
|---|---|
| Intel (R) SpeedStep technology | [Enabled] |
|   Mode for AC | [Maximum Perfor] |
|   Mode for Battery | [Battery Optimi] |
| Adaptive Thermal Management | |
|   Scheme for AC | [Maximize Perfo] |
|   Scheme for Battery | [Balanced] |
| CPU Power Management | [Enabled] |
| Power On with AC Attach | [Disabled] |
| | |
| Disable Built-in Battery | [Enter] |

### Item Specific Help

This selects the mode of Intel(R) SpeedStep technology at runtime.
Maximum Performance –
  Always highest speed
Battery Optimized –
  Always lowest speed
Disabled –
  No runtime support, highest speed

| | | | |
|---|---|---|---|
| F1 | Help | ↑↓ | Select Item |
| Esc | Exit | ←→ | Select Menu |

| | | |
|---|---|---|
| +/- | Change Values | F9   Setup Defaults |
| Enter | Select ▶ Sub-Menu | F10   Save and Exit |

**Config**

## Beep and Alarm

|  | Item Specific Help |
|---|---|
| Password Beep [Disabled]<br>Keyboard Beep [Disabled] | 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 be sounded when the entered password matches or does not match the configured password. |

| | | | | | |
|---|---|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
| Esc | Exit | ↔ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |

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## Config

### CPU

Intel (R) Hyper-Threading Technology
[Enabled]

#### Item Specific Help

[Enabled] This setting enables additional CPU threads. These threads appear as additional processors but share some resources with the other threads within a CPU.
[Disabled] This setting enables only one thread within each execution core unit.

| F1 | Help | ↑↓ | Select Item | +/− | | Change Values | F9 | Setup Defaults |
| Esc | Exit | ←→ | Select Menu | Enter | | Select ► Sub-Menu | F10 | Save and Exit |

# ThinkPad Setup

## Security Chip

| | | Item Specific Help |
|---|---|---|
| **Security Chip Selection** | [Intel PTT] | [Discrete TPM] |
| Security Chip | [Enabled] | Use a discrete TPM chip with TPM 1.2 mode. |
| ▶ Security Reporting Options | | |
| Clear Security Chip | [Enter] | [Intel PTT] Use Intel(R) Platform Trusted Technology with TPM 2.0 mode. |
| Physical Presence for Provisioning | [Disabled] | |
| Physical Presence for Clear | [Enabled] | Note: Intel(R) PTT can be used with Microsoft (R) Windows 8 (R) or later operating system. |

| | | | | | | |
|---|---|---|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
| Esc | Exit | ↔ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |

# ThinkPad Setup

## Memory Protection

| | Item Specific Help |
|---|---|
| Execution Prevention    [Enabled] | Enabled: If your OS supports Data Execution Prevention, this setting can prevent virus/worm attacks that create memory buffer overflows by running code where only data is allowed. Disabled: Normal state Note: reset to disabled if your required applications can't run. |

| | | | | | | |
|---|---|---|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9   Setup Defaults |
| Esc | Exit | ←→ | Select Menu | Enter | Select ▶ Sub-Menu | F10   Save and Exit |
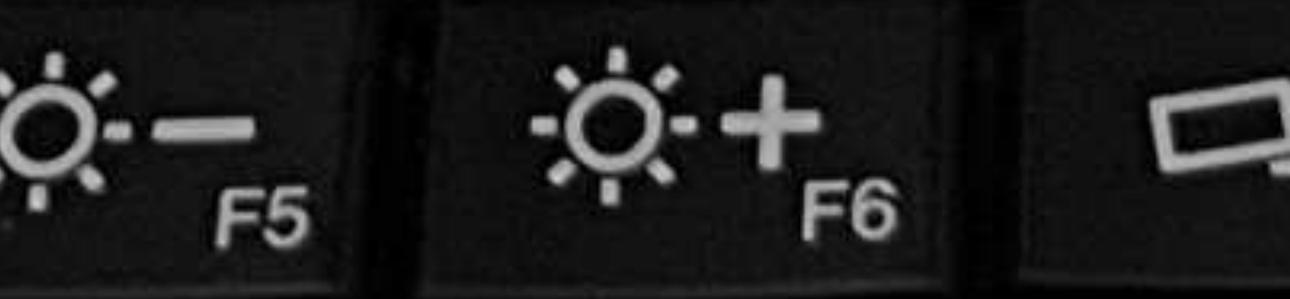
# ThinkPad Setup

## Virtualization

| | Item Specific Help |
|---|---|
| Intel (R) Virtualization Technology [Enabled] <br> Intel (R) VT-d Feature [Enabled] | When enabled, a VMM can utilize the additional hardware capabilities provided by Intel(R) Virtualization technology. |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
| Esc | Exit | ↔ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |

## Security

| I/O Port Access | | Item Specific Help |
|---|---|---|
| | | |
| Ethernet LAN | [Enabled] | Select whether to |
| Wireless LAN | [Enabled] | enable or disable |
| Wireless WAN | [Enabled] | Ethernet LAN device. |
| Bluetooth | [Enabled] | [Enabled] |
| USB Port | [Enabled] | Enables use of |
| Memory Card Slot | [Enabled] | Ethernet LAN device. |
| Smart Card Slot | [Enabled] | [Disabled] |
| Integrated Camera | [Enabled] | Disables use of |
| Microphone | [Enabled] | Ethernet LAN device |
| Fingerprint Reader | [Enabled] | and keeps it disabled |
| WiGig | [Enabled] | in the OS environment. |

| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
|---|---|---|---|---|---|---|---|
| Esc | Exit | ↔ | Select Menu | Enter | ► Sub-Menu | F10 | Save and Exit |

# ThinkPad Setup

## Security

### Internal Device Access

| | | Item Specific Help |
|---|---|---|
| Bottom Cover Tamper Detection | [Disabled] | [Enabled] |
| Internal Storage Tamper Detection | [Disabled] | Enable the tamper detection. If detected, Supervisor Password is required to boot the system. [Disabled] Disable the tamper detection. |

Bottom Cover Tamper Detection will not take effect unless Supervisor Password is enabled.

| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
|---|---|---|---|---|---|---|---|
| Esc | Exit | ↔ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |

# ThinkPad Setup

## Secure Boot Configuration

| | | Item Specific Help |
|---|---|---|
| Secure Boot | [Disabled] | Enables or disables |
| | | Secure Boot feature. |
| Platform Mode | User Mode | [Enabled] |
| Secure Boot Mode | Standard Mode | Prevent unauthorized |
| | | operating systems from |
| Reset to Setup Mode | [Enter] | running at boot time. |
| Restore Factory Keys | [Enter] | [Disabled] |
| Clear All Secure Boot Keys | [Enter] | Allow to run any |

Enables or disables Secure Boot feature.
[Enabled]
Prevent unauthorized operating systems from running at boot time.
[Disabled]
Allow to run any operating systems at boot time.
Note: Enabling Secure Boot requires to set the startup setting to "UEFI Only" and "CSM Support: No".

| | | | | | |
|---|---|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
| Esc | Exit | ↔ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |

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## Security

| Intel(R) SGX | | Item Specific Help |
|---|---|---|

Intel (R) SGX Control   [Software Controlled]
 – Current State     Disabled

Change Owner EPOCH   [Enter]

**Item Specific Help**

This option enables or disables Intel (R) Software Guard Extensions (SGX) function.

If Software Controlled is selected, SGX will be controlled by SGX application for UEFI boot OS.

| F1 | Help | ↑↓ | Select Item | +/- | | Change Values | F9 | Setup Defaults |
|---|---|---|---|---|---|---|---|---|
| Esc | Exit | ↔ | Select Menu | Enter | | Select ▶ Sub-Menu | F10 | Save and Exit |

| Main | Config | Date/Time | Security | Startup | Restart |
|------|--------|-----------|----------|---------|---------|

Item Specific Help

▶ Boot

Network Boot                              [PCI LAN]

UEFI/Legacy Boot                          [UEFI Only]
 – CSM Support                            [No]

Boot Mode                                 [Quick]

Option key Display                        [Enabled]

Boot device List F12 Option               [Enabled]

Boot Order Lock                           [Disabled]

| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
|----|------|-----|-------------|-----|---------------|-----|----------------|
| Esc | Exit | ↔ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |

# ThinkPad Setup

| | |
|---|---|
| UEFI BIOS Version | R02ET74W (1.47 ) |
| UEFI BIOS Date (Year-Month-Day) | 2020-09-15 |
| Embedded Controller Version | R02HT33W (1.15 ) |
| ME Firmware Version | 11.8.83.3874 |
| Machine Type Model | 20F6CTO1WW |
| System-unit serial number | |
| System board serial number | |
| Asset Tag | No Asset Information |
| CPU Type | Intel(R) Core(TM) i7-6500U CPU |
| CPU Speed | 2.500GHz |
| Installed memory | 8192MB |
| UUID | |
| MAC Address (Internal LAN) | |
| Preinstalled OS License | |
| UEFI Secure Boot | Off |
| OA3 ID | |
| OA2 | Yes |

| | | | | | |
|---|---|---|---|---|---|
| F1 | Help | ↑↓ | Select Item | +/- | Change Values | F9 | Setup Defaults |
| Esc | Exit | ←→ | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit |