



# Asus N3150M-E Manual



1

2

Table Of Contents

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59

---

•

[Table of Contents](#)

•

## Bookmarks

[Download this manual](#)

## Quick Links





N3150M-E

N3050M-E



## Table of Contents

[Next Page](#)

1  
2  
3  
4  
5

## Related Manuals for Asus N3150M-E

[Motherboard Asus N3150M-E User Manual](#)

(59 pages)

[Motherboard Asus N3150I-C User Manual](#)

(66 pages)

[Motherboard Asus N3150I-C Manual](#)

(66 pages)

[Motherboard Asus N3050T User Manual](#)

(27 pages)

[Motherboard Asus N3050I-CM-A Manual](#)

(27 pages)

[Motherboard Asus N3050I-CM-A Quick Start Manual](#)

(2 pages)

[Motherboard Asus J3455T-IM-A Manual](#)

Industrial motherboard (48 pages)

[Motherboard Asus N3050T R2.0 Quick Start Manual](#)

(2 pages)

[Motherboard Asus PRIME N3060T Manual](#)

(24 pages)

[Motherboard Asus N3060I-CM-A Instruction Manual](#)

(27 pages)

[Motherboard Asus Motherboard NR-LSR User Manual](#)

Asus nr-lsr motherboard user guide (106 pages)

[Motherboard Asus NCT-DA User Manual](#)

Nct-d mb user manual english version (112 pages)

[Motherboard Asus N4L-VM DH User Manual](#)

Intel 945gm/ich7-m chipset (148 pages)

[Motherboard Asus NCLV-DA User Manual](#)

Nclv-d series (104 pages)

[Motherboard Asus M2N68-LA User Manual](#)

(22 pages)

[Motherboard Asus PRIME N4000T Quick Start Manual](#)

(6 pages)

## Summary of Contents for Asus N3150M-E

[Page 1](#) N3150M-E N3050M-E...

[Page 2](#) INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

[Page 3: Table Of Contents](#)

Contents Safety information ..... iv About this guide .....iv Package contents ..... vi N3150M-E / N3050M-E specifications summary .....vi Chapter 1: Product

introduction Before you proceed .....1-1 Motherboard overview ..... 1-2 Central Processing Unit (CPU) .....1-4 System memory .....

## [Page 4: Safety Information](#)

Safety information Electrical safety before relocating the system. When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device. Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.

[Page 5](#) Refer to the following sources for additional information and for product and software updates. ASUS websites The ASUS website provides updated information on ASUS hardware and software products. Refer to the ASUS contact information. Optional documentation that may have been added by your dealer. These documents are not part of the standard package.

## [Page 6: Package Contents](#)

Dual Core Processor N3050 (Codename: Braswell)\*\* \* Only for N3150M-E \*\* Only for N3050M-E Memory Dual-channel memory architecture \* Refer to [www.asus.com](http://www.asus.com) for the latest Memory QVL (Qualified Vendors List). Graphics ® Integrated Graphics Processor- Intel HD Graphics support Multi-VGA output support: HDMI, D-Sub port - Maximum shared memory of 512MB \* With DX11.1, OGL 4.2 support...

[Page 7](#) 1 x 4-pin ATX 12V power connector 1 x System panel connector BIOS features ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree F3 Shortcut functions and ASUS DRAM SPD (Serial Presence Detect) memory information (continued on the next page)

[Page 8](#) Manageability Wfm 2.0, DMI 2.0, WOL by PME, PXE Operating System Windows ® Support DVD Drivers ASUS utilities EZ Update Anti-virus software (OEM version) Form factor viii...

## [Page 9: Chapter 1: Product Introduction](#)

Take note of the following precautions before you install motherboard components or change any motherboard settings. to static electricity. bag that came with the component. switched off or the power cord is detached from the power supply. Failure to do so ASUS N3150M-E / N3050M-E...

## [Page 10: Motherboard Overview](#)

The edge with external ports goes to the rear part of the chassis as indicated in the image below. 1.2.2 Screw holes Place six screws into the holes indicated by circles to secure the motherboard to the chassis. N3150M-E N3050M-E Place this side towards the rear of the chassis Chapter 1: Product introduction...

[Page 11](#) AUDIO PCIEX1\_1 PCIEX16 Super PCIEX1\_2 SATA6G\_1 SATA6G\_2 USBE34 AAFP F\_PANEL 1.2.4 Layout contents Connectors/Jumpers/Slots/LED Page 1-12 1-12 ® ® \* N3150M-E with Intel SOC N3150 / \*\* N3050M-E with Intel SOC N3050 1-11 1-13 1-13 1-11 ASUS N3150M-E / N3050M-E...

## [Page 12: Central Processing Unit \(Cpu\)](#)

DIMM\_A1 Channel Sockets DIMM\_B1 N3150M-E Attention: If only one N3050M-E DDR3/L memory module is to be installed, be sure to install it in DIMM\_A1. N3150M-E / N3050M-E 240-pin DDR3 DIMM sockets 1.4.2 Memory configurations sockets. operation. Chapter 1: Product introduction...

[Page 13](#) ® following: ® motherboard. 2.5 Ai Tweaker menu for manual memory [www.asus.com](http://www.asus.com) 1.4.3 Installing a DIMM ASUS N3150M-E / N3050M-E...

## [Page 14: Expansion Slots](#)

To remove a DIMM Expansion slots the slots and the expansion cards that they support. cause you physical injury and damage motherboard components. 1.5.1 Installing an expansion card To install an expansion card: make the necessary hardware settings for the card. use.

[Page 15](#) - - - - - shared - - - - - shared - - - - - shared - - - - - shared - - - - -

## [Page 16: Headers](#)

Headers Clear RTC RAM (2-pin CLRRTC) N3150M-E N3050M-E CLRRTC PIN 1 N3150M-E / N3050M-E  
Clear RTC RAM To erase the RTC RAM: enter data. battery. Chapter 1: Product introduction...

## [Page 17: Connectors](#)

LAN port LED indications Speed Activity Link Activity/Link LED Speed LED Status Description  
Status Description LAN port Line In port (light blue). audio sources. Line Out port (lime).  
Microphone port (pink). This port connects to a microphone. ASUS N3150M-E / N3050M-E...

[Page 18](#) Audio 2.1, 4.1, 5.1 or 7.1-channel configuration Headset Port 4.1-channel 5.1-  
channel 7.1-channel 2.1-channel — — To configure a 7.1-channel audio output: output. USB  
2.0 ports USB 3.0 ports ® operating system. ® Video Graphics Adapter (VGA) port. HDMI port.  
content.

[Page 19](#) PIN 1 PIN 1 HD-audio-compliant Legacy AC'97 pin definition compliant definition  
N3150M-E / N3050M-E Front panel audio connector set the Front Panel Type [HD] [AC97] this  
connector is set to [HD]. See section 2.5.6 Onboard Devices Configuration for details. Serial port  
connector (10-1 pin COM)

[Page 20](#) -12 Volts +3 Volts +3 Volts PIN 1 N3150M-E / N3050M-E ATX power connectors not  
boot up. for details. CPU and chassis fan connectors (4-pin CPU\_FAN, 4-pin CHA\_FAN) black wire  
of each cable matches the ground pin of the connector.

[Page 21](#) This connection speed. USB\_E34 N3150M-E N3050M-E PIN 1 N3150M-E / N3050M-E  
USB2.0 connector Serial ATA 6.0Gb/s connectors (7-pin SATA6G\_1/2) N3150M-E SATA6G\_1  
SATA6G\_2 N3150M-E SATA6.0Gb/s connectors Advanced Mode >...

[Page 22](#) Speaker connector (4-pin SPEAKER) allows you hear system beeps and warnings.  
N3150M-E N3050M-E SPEAKER PIN 1 N3150M-E / N3050M-E Speaker Out connector USB 3.0  
connector (20-1 pin USB3\_34) USB3\_34 N3150M-E IntA\_P2\_D+ IntA\_P1\_D+ IntA\_P2\_D-  
IntA\_P1\_D- IntA\_P2\_SSTX+ IntA\_P1\_SSTX+ IntA\_P2\_SSTX- IntA\_P1\_SSTX- IntA\_P2\_SSRX+  
IntA\_P1\_SSRX+...

[Page 23](#) N3150M-E N3050M-E PIN 1 +HDD\_LED- RESET N3150M-E / N3050M-E System panel  
connector Hard disk drive activity LED (2-pin +HDLED) ATX power button/soft-off button (2-pin  
PWRBTN) This connector is for the system power button. Reset button (2-pin RESET) This 2-pin  
connector is for the chassis-mounted reset button for system reboot without turning off the  
system power.

## [Page 24: Software Support](#)

Software support 1.8.1 Installing an operating system ® detailed information. 1.8.2 Support  
DVD information www.asus.com for updates. To run the Support DVD menus. The following  
screen is for reference only. Click an icon to display Support DVD/motherboard information Click  
an item to install...

## [Page 25: Chapter 2: Bios Information](#)

Managing and updating your BIOS 2.1.1 EZ Update EZ Update Click to automatically update  
your motherboard's driver, software and firmware Click to find and Click to select Click to select  
the BIOS a boot logo update the from file BIOS ASUS N3150M-E / N3050M-E...

[Page 26](#) 2.1.2 ASUS EZ Flash 2 To update the BIOS using EZ Flash 2: Advanced Mode Tool  
ASUS EZ Flash 2 Utility Drive Folder Info Chapter 2: Getting started...

[Page 27](#) 2.1.3 ASUS CrashFree BIOS 3 utility N3150ME. N3050ME.CAP Recovering the BIOS To  
recover the BIOS: 2.1.4 ASUS BIOS Updater Before updating BIOS ASUS N3150M-E / N3050M-E...

[Page 28](#) ENTER to select boot device ESC to boot using defaults P2: ST3808110AS (76319MB)  
aigo miniking (250MB) UEFI: (FAT) ASUS DRW-2014L1T(4458MB) P1: ASUS  
DRW-2014L1T(4458MB) UEFI: (FAT) aigo miniking (250MB) Enter Setup ISOLINUX 3.20

2006-08-26 Copyright (C) 1994-2005 H. Peter Anvin A Bootable DVD/CD is detected.

[Page 29](#) 21:14:34 Drives Files panel panel Note [Enter] Select or Load [Tab] Switch [V] Drive Info [Up/Down/Home/End] Move [Esc] Exit Are you sure you want to update the BIOS? the Load Optimized Defaults Exit 2.10 Exit Menu ASUS N3150M-E / N3050M-E...

### [Page 30: Bios Setup Program](#)

BIOS setup program Entering BIOS Setup at startup To enter BIOS Setup at startup: Entering BIOS Setup after POST To enter BIOS Setup after POST: [www.asus.com](http://www.asus.com) Load Optimized Defaults 2.10 Exit Menu 1.6 Jumpers for information BIOS menu screen EZ Mode and Advanced Mode...

[Page 31](#) CPU/chassis fan speed, and SATA language of the BIOS information setup program Displays the Shows the Advanced mode Loads optimized bootable menus default settings devices Selects the boot Saves the changes device priority and resets the system ASUS N3150M-E / N3050M-E...

[Page 32](#) 2.2.2 Advanced Mode Advanced Mode EzMode(F7) Quick Note Hot keys MyFavorite Language Menu bar Configuration Last modified Sub-menu item General help Scroll bar fields settings Menu items Goes back to EZ Mode Displays the CPU/motherboard temperature, CPU and memory voltage output Chapter 2: Getting started...

[Page 33](#) Menu bar My Favorites Main Advanced Monitor Boot Tool Exit Menu items Main Submenu items Language MyFavorites (F3) 2.3 My Favorites Quick Note (F9) Hot keys ASUS N3150M-E / N3050M-E...

### [Page 34: My Favorites](#)

Scroll bar General help Configuration fields Last Modified button My Favorites Chapter 2: Getting started...

[Page 35](#) Adding items to My Favorites Main menu panel Selected shortcut items Submenu panel Exit (ESC) ASUS N3150M-E / N3050M-E 2-11...

### [Page 36: Main Menu](#)

Main menu 2.4.1 Language [English] 2.4.2 Security 1.6 Jumpers Administrator or User Password Not Installed Installed 2-12 Chapter 2: Getting started...

[Page 37](#) Not Installed User Password User Password Not Installed Installed To set a user password: User Password Create New Password To change a user password: User Password Enter Current Password Create New Password User Password Not Installed ASUS N3150M-E / N3050M-E...

### [Page 38: Advanced Menu](#)

Advanced menu 2.5.1 OCMR Over Voltage Control DRAM Over Voltage [Auto] 2.5.2 CPU Configuration Limit CPUID Maximum [Disabled] [Enabled] Bi-directional PROCHOT [Enabled] 2-14 Chapter 2: Getting started...

[Page 39](#) Intel Virtualization Technology [Disabled] [Enabled] PPM Configuration Enhanced Intel SpeedStep Technology [Enabled] Turbo Mode [Enabled] CPU C-State Report [Disabled] [Enabled] Max CPU C-state [C7] 2.5.3 SoC Configuration Intel IGD Configuration ® IGD Turbo [Auto] Primary Display [Auto] ASUS N3150M-E / N3050M-E 2-15...

[Page 40](#) iGPU Memory [64M] PUNIT Power Configuration [Enabled] Svid Configuration [Svid Config 3] 2.5.4 SATA Configuration STAT Controller [Enabled] item to [Enabled] SATA Mode Selection [AHCI] Aggressive LPM Support [Auto] S.M.A.R.T. Status Check [On] SATA6G\_1 / SATA6G\_2 (Gray) [Enabled] Hot Plug [Disabled] 2-16 Chapter 2: Getting started...

[Page 41](#) Device Sleep Support [Disabled] 2.5.5 Network Stack Network Stack [Disabled] Ipv4 PXE Support [Enabled] Ipv6 PXE Support [Enabled] PXE boot wait time [0] Media detect count [1] 2.5.6 USB Configuration USB Devices Legacy USB Support [Enabled] ASUS N3150M-E / N3050M-E...

[Page 42](#) xHCI Hand-off [Disabled] USB Single Port Control 1.2.3 Motherboard layout 2.5.7



Onboard Devices Configuration HD Audio Controller [Enabled] item to [Enabled] Front Panel Type [HD Audio] Realtek LAN Controller [On] Realtek PXE Option ROM [Off] Power Loading [Auto] Serial Port Configuration Serial Port [Enabled] Chapter 2: Getting started...

[Page 43](#) Change Settings [Auto] Device Mode [STD Printer Mode] 2.5.8 Deep S4 [Disabled] Restore AC Power Loss [Power Off] Power On By PCI-E [Disabled] Power On By RTC [Disabled] RTC Alarm Date (Days) and Hour/ Minute/Second ASUS N3150M-E / N3050M-E 2-19...

### [Page 44: Monitor Menu](#)

Monitor menu 2.6.1 CPU/ MB Temperature [xxx°C/xxx°F]/ [Ignore] Select [Ignore] 2.6.2 CPU Fan/ Chassis Fan Speed [xxxx RPM]/ [Ignore]/ [N/A] [Ignore] 2.6.3 CPU Core Voltage, 3.3V Voltage, 5V Voltage, 12V Voltage [Ignore] 2.6.4 CPU Q-Fan Control [Enabled] Chapter 2: Getting started...

[Page 45](#) CPU Fan Profile [Standard] CPU Fan Profile CPU Upper Temperature [70] range from 25° CPU Fan Max. Duty Cycle(%) [100] 2.6.5 Chassis Q-Fan Control [Enabled] Chassis Fan Speed Low Limit [600 RPM] Chassis Fan Profile [Standard] ASUS N3150M-E / N3050M-E 2-21...

### [Page 46: Boot Menu](#)

Chassis Fan Upper Temperature [70] Chassis Fan Max. Duty Cycle(%) [100] Chassis Fan Lower Temperature [40] Chassis Fan Min. Duty Cycle(%) [60] 2.6.6 Anti Surge Support [Enabled] Boot menu 2-22 Chapter 2: Getting started...

[Page 47](#) Fast Boot [Enabled] SATA Support [All Devices] USB Support [Partial Initialization] PS/2 Keyboard and Mouse Support [Auto] Network Stack Driver Support [Disabled] Next Boot after AC Power Loss [Normal Boot] 2.7.2 Boot Logo Display [Auto] © ASUS N3150M-E / N3050M-E...

[Page 48](#) POST Delay Time [3 sec] 2.7.3 Bootup NumLock State [Enabled] 2.7.4 Wait for 'F1' If Error [Enabled] 2.7.5 Option ROM Messages [Enabled] 2.7.6 INT19 Trap Response [Disabled] 2.7.7 Above 4G Decoding [Disabled] 2.7.8 Setup Mode [EZ Mode] 2.7.9 CSM (Compatibility Support Module) Launch CSM [Enabled] ©...

[Page 49](#) Boot from Storage Devices [Legacy OPROM first] Boot from PCI-E Expansion Devices [Legacy OPROM first] 2.7.10 Secure Boot © OS Type [Windows UEFI mode] © © © © © © Key Management Install Default Secure Boot keys Clear Secure Boot keys ASUS N3150M-E / N3050M-E 2-25...

[Page 50](#) Save Secure Boot Keys PK Management Delete PK Load Default PK KEK Management © Delete KEK Load Default KEK Append Default KEK DB Management Delete the db Load Default db 2-26 Chapter 2: Getting started...

[Page 51](#) Append Default db dbx Management Delete the dbx Load Default dbx Append Default dbx 2.7.11 Boot Option Priorities © © 2.7.12 Boot Override ASUS N3150M-E / N3050M-E...

### [Page 52: Tool Menu](#)

Tool menu 2.8.1 ASUS EZ Flash 2 Utility 2.1.2 ASUS EZ Flash 2 2.8.2 ASUS Overclocking Profile Overclocking Profile Not assigned Load from Profile Profile Name Save to Profile Load/Save Profile from/to USB Drive Chapter 2: Getting started...

### [Page 53: Exit Menu](#)

2.8.3 ASUS SPD Information DIMM Slot number [DIMM\_A1] Exit menu Load Optimized Defaults Save Changes & Reset Discard Changes & Exit Launch EFI Shell from USB drives ASUS N3150M-E / N3050M-E 2-29...

[Page 54](#) Chapter 2: Getting started...

### [Page 55: Appendices](#)

: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil. ASUS N3150M-E / N3050M-E...

[Page 56](#) ASUS Recycling/Takeback Services ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials.

[Page 57](#) Δήλωση Συμμόρφωσης ΕΕ. informacija molimo pogledajte Deklaraciju o usklađenosti EK. Magyar Az AsusTek Inc. ezennel kijelenti, hogy a készülék megfelel a CE-irányelvek alapvető követelményeinek és ide vonatkozó egyéb rendelkezéseinek. További részletekért tekintse meg a CE-megfelelőségi nyilatkozatot. ASUS N3150M-E / N3050M-E...

### [Page 58: Asus Contact Information](#)

+1-510-739-3777 +1-510-608-4555 Web site <http://www.asus.com/us/> Technical Support Support fax +1-812-284-0883 General support +1-812-282-2787 Online support <http://www.service.asus.com/> ASUS COMPUTER GmbH (Germany and Austria) Address Harkort Str. 21-23, D-40880 Ratingen, Germany +49-2102-959931 Web site <http://www.asus.com/de> Online contact <http://eu-rma.asus.com/sales> Technical Support Telephone +49-2102-5789555...

[Page 59](#) ASUS N3150M-E / N3050M-E...

This manual is also suitable for:

[N3050m-e](#)