

2014

# Mainboard

## Product Launch Guide

--[**NLH61-ITX**]

NL Series Motherboard



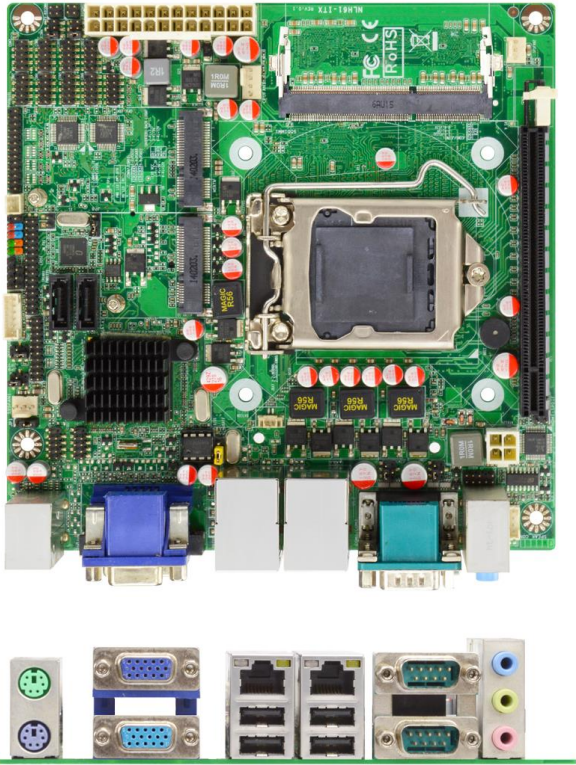
Jetway Information Co., Ltd.

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# NLH61-ITX



1. INTEL® H61 Chipset
2. Support LGA1155 Sandy Bridge Intel Core processor family
3. Support DDR3 1600/1333/1066 DDR3 DIMM slot
4. Onboard DDR3 1600MHz/4G/2G memory (Option)
5. Integrated HD Audio CODEC with 6-CH
6. Support 1\*PCI-Express x16 slot
7. Support 2\*PCI Express Gigabit LAN
8. Support 10\*COM ports
9. Support 2\*SATA2.0
10. Support 8\*USB2.0
11. Onboard 1\*MiniPCI-E connector(Half size)
12. Onboard 1\*M-SATA connector(Full size)
13. Support SIM Card Socket (Option )
14. Support 24-bit Dual channel LVDS
15. Support Amplifier function(3W,Option)
16. 4 Phase CPU Power Support
17. Support Thunder Protection Function
18. ITX Form Factor(170mm X170mm)

## Specifications

<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Supports LGA1155 Sandy Bridge Intel Core processor family</li> <li>■ 4 Phase CPU Power Support</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>■ INTEL® H61 Chipset</li> </ul>
<b>I.O Chipset</b>	<ul style="list-style-type: none"> <li>■ Fintek® F71869AD</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>■ 1* 240-pin DDR3 DIMM slot</li> <li>■ Onboard 4G/1600MHz DDR3 memory (Option, no memory slot)</li> <li>■ Onboard 2G/1600MHz DDR3 memory (Option)</li> <li>■ Dual Channel DDR3 memory technology</li> <li>■ Support DDR3 1333/1066/800</li> <li>■ Max. capacity of system memory up to 10GB</li> </ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>■ 1* Mini PCI-E connector (Half size)</li> <li>■ 1* M-SATA connector (Full size)</li> <li>■ 1* PCIe16 slot</li> </ul>
<b>LVDS</b>	<ul style="list-style-type: none"> <li>■ Onboard 24-bit Dual channel</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>■ 2* Serial ATA2 3Gb/s connectors</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>■ ALC887 Audio CODEC</li> <li>■ 6-Channel HD Audio CODEC</li> </ul>
<b>Ethernet LAN</b>	<ul style="list-style-type: none"> <li>■ 2* GIGALAN</li> <li>■ Realtek ® 8111G Chip</li> </ul>

<ul style="list-style-type: none"> <li>■ <b>USB</b></li> </ul>	<ul style="list-style-type: none"> <li>■ 8* USB 2.0/1.1(4 distribute in back panel, 4 distribute in mid-board)</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Special Features</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Support CPU Smart Fan</li> <li>■ Support Watch dog Technology</li> <li>■ Support GPIO Technology</li> <li>■ Support memory Onboard (2G/4G, Option)</li> <li>■ Support Dual VGA Output</li> <li>■ Support 2*RS422/RS485 COM headers</li> <li>■ Support Amplifier function(3W,Option)</li> <li>■ Thunder Protection Function</li> <li>■ All Solid Capacitor design</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Back Panel I / O</b></li> </ul>	<ul style="list-style-type: none"> <li>■ 4* USB 2.0/1.1 ports</li> <li>■ 1* PS/2 port</li> <li>■ 2* RJ-45 ports</li> <li>■ 2* COM ports ( support 5V/12V )</li> <li>■ 1* 3JACK port</li> <li>■ 2* VGA ports (VGA+DVI Option, Max. Resolution: 1920×1200@60Hz)</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Internal I / O</b></li> </ul>	<ul style="list-style-type: none"> <li>■ 2* USB 2.0/1.1 headers for 4 USB 2.0/1.1 ports</li> <li>■ 1* CPU / Chassis Fan connector</li> <li>■ 2* System Fan connectors</li> <li>■ 8* COM headers (2*Support RS422/RS485 for COM6、COM8)</li> <li>■ 1* Parallel header</li> <li>■ 1* 24-pin ATX Power connector</li> <li>■ 1* 4-pin ATX Power connector</li> <li>■ 1* 10-pin GPIO header</li> <li>■ 1* Mini PCI-e connector</li> <li>■ 1* M-SATA connector</li> <li>■ 2* SATA2.0 connectors</li> <li>■ 1* Audio header</li> <li>■ 1* 4-pin Amplifier function header(Option)</li> <li>■ 1* 24-bit Dual Channel LVDS header (Max. Resolution: 1920×1200@60Hz)</li> <li>■ 1* 2-pin HDMI SPDIF header</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>BIOS</b></li> </ul>	<ul style="list-style-type: none"> <li>■ AMI 32MB DIP Flash ROM</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Form Factor</b></li> </ul>	<ul style="list-style-type: none"> <li>■ ITX Form Factor(170mm X170mm)</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Standard Accessories</b></li> </ul>	<ul style="list-style-type: none"> <li>■ F04-250-2F: I/O Shield</li> <li>■ G01-SATA-BK-B-2F: 1* SATA cable</li> <li>■ G01-COM-H2M22-1F: 1* COM Cable</li> </ul>