TECHNICAL MANUAL

Of

Intel H61 Express Chipset

Based Mini-ITX M/B

NO. G03-NC9F-F

Revision: 2.0

Release date: June 14, 2013

Trademark:

* Specifications and Information contained in this documentation are furnished for information use only, and are subject to change at any time without notice, and should not be construed as a commitment by manufacturer.

Environmental Protection Announcement

Do not dispose this electronic device into the trash while discarding. To minimize pollution and ensure environment protection of mother earth, please recycle.



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- Avoid the dusty, humidity and temperature extremes. Do not place the product in any area where it may become wet.
- 0 to 60 centigrade is the suitable temperature. (The figure comes from the request of the main chipset)
- Generally speaking, dramatic changes in temperature may lead to contact malfunction and crackles due to constant thermal expansion and contraction from the welding spots' that connect components and PCB. Computer should go through an adaptive phase before it boots when it is moved from a cold environment to a warmer one to avoid condensation phenomenon. These water drops attached on PCB or the surface of the components can bring about phenomena as minor as computer instability resulted from corrosion and oxidation from components and PCB or as major as short circuit that can burn the components. Suggest starting the computer until the temperature goes up.
- The increasing temperature of the capacitor may decrease the life of computer. Using the close case may decrease the life of other device because the higher temperature in the inner of the case.
- Attention to the heat sink when you over-clocking. The higher temperature may decrease the life of the device and burned the capacitor.

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Manual Revision Information

Reversion	Revision History	Date
2.0	Second Edition	June 14, 2013

Item Checklist

- Motherboard
- \square DVD for motherboard utilities
- User's Manual
- Cable(s)
- ☑ I/O Back panel shield

Chapter 1

Introduction of the Motherboard

1-1 Feature of Motherboard

- Intel[®] H61 express chipset
- Support LGA 1155 CPU socket Intel[®] Core[™] i7 processors / Intel[®] Core[™] i5 processors / Intel[®] Core[™] i3 processors / Intel[®] Celeron[™] processors
- Support DDRIII 1066-1333 SO-DIMM up to 16GB and dual channel function
- Integrated with Realtek RTL8111EVL Gigabit Ethernet LAN chip
- Integrated with RealTek ALC892-GR 7.1 channel HD Audio Codec
- Support USB 3.0 data transport demands.
- Support PCIE 2.0 x1 slot and Mini PCI-E slot
- Support CPU Smart FAN
- Supports ACPI S3 Function
- Compliance with ErP Standard
- Support Watchdog Timer Technology

1-2 Specification

Spec	Description			
Design	 Mini-ITX form factor 6 layers ; PCB size: 17.0x17.0cm 			
Chipset	 Intel H61 Express Chipset 			
 Support Intel[®] LGA 1155 Socket Core[™] i7 Proces Core[™] i5 Processor, Intel[®] Core[™] i3 Process Celeron[™] processors * for detailed CPU support information please visit out 				
Memory Slot	 DDRIII SO-DIMM slot x 2 Support DDRIII 1066/1333 MHz SO-DIMM up to 16GB Support dual channel function 			
Expansion Slot	 1* PCIE x 1 slot 1* Full-size Mini-PCIE slot/MSATA slot 1* Half-size Mini-PCIE slot 			
Gigabit LAN Chip	 Integrated with Realtek RTL8111EVL PCI-E Gigabit LAN chip Support Fast Ethernet LAN function of providing 10/100/1000 Mbps Ethernet data transfer rate 			
Audio Chip	 Realtek ALC892-GR 7.1 channel Audio Codec integrated Audio driver and utility included 			
BIOS	 32M DIP Flash ROM 			
Multi I/O	 1* 19V DC-in power jack 2* USB 3.0 port + 1* DVI-I port 1* HDMI port 1*E-SATA port 1* RJ-45 port 2* USB 2.0 port 1* MIC-IN jack 			

	1*LINE-OUT (S/PDIF) jack 1*LVDS connector + 1*LVDS inverter connector 1*EDP connector 1*Speaker connector 2* SATAII connector 1*Front panel audio header
•	1*Front panel audio header 1*DMIC header
•	1*DMIC header
•	2*9-pin USB 2.0 header
•	1*Front panel header
•	1*CIR header
•	1*Serial port header

1-3 Layout Diagram

Rear IO Diagram



Motherboard Internal Diagram-Front



Motherboard Internal Diagram-Back



LPC Debug Connector

Motherboard Jumper Position



Connectors

Connector	Name	
DC_IN	DC Adapter 19V	
ATX2P	DC19V Power Connector	
USB30	USB3.0 Connector	
DVI-I	DVI with VGA	
HDMI (up)	High-Definition Multimedia Interface	
eSATA(down)	eSATA Connector	
RJ-45 LAN	RJ-45 LAN Connector	
USB20	USB2.0 Connector	
FP_HP	Front panel head phone with SPDIF	
FP_MIC	Front panel_MIC	
PWROUT1	Mainboard power output 12V/VCC	
PWROUT2	Mainboard power output 12V/VCC	
SPEAK_CON	Speaker connector	
INVERTER	Panel Inverter connector	
LVDS LVDS connector		
EDP (Bottom side)	EDP connector	

Headers

Header	Name	Description
FP_AUDIO	Front Panel Audio Header	10-pin block
DMIC_CON	DMIC Header	5-pin Block
USB1/USB2	USB Header	10-pin Block
JW_FP	Front Panel Header(PWR LED/ HD LED/ /Power Button /Reset)	10-pin Block
CPU FAN/SYSFAN	FAN Speed Header	4-pin Block
CIR_CON	CIR Header	8-pin Block
COM1	Serial Port Header	10-pin Block

Jumper

Jumper	Name	Description
JBAT	CMOS RAM Clear Function Select	3-pin Block
JP1	Inverter VCC 12V/19V Select	3-pin Block
JP2	MINI_FULL Slot VCC 3.3V/ 3.3VSB Select	3-pin Block
JP3	LCD Power Source Setting	6-pin Block
JP5	MINI_HALF Slot VCC 3.3V/ 3.3VSB Select	3-pin Block

Chapter 2 Hardware Installation











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2-3 Short : MINI_HALF Slot Power = 3.3VSB

2-2 Connectors and Headers 2-2-1 Connectors

(1) Rear Panel Connectors



/Optical SPDIF OUT





(3) PWOUT1/ PWOUT2 (4-pin block): Mainboard power output 12V/VCC





PWOUT2 Connector

PWOUT1 Connector

Pin No.	Definition	
1	+12V	
2	GND	
3	GND	
4	VCC	

Pin No.	Definition	
1	VCC	
2	GND	
3	GND	
4	+12V	

(4) SATA1/SATA2(7-pin): SATA II Port connector





(5)SPEAK_CON (4-pin block): Speaker Connector

(6) INVERTER (8-pin): LVDS Inverter Connector



Pin No.	Definition	
1	Backlight Enable	
2	Backlight Duty	
3	PVCC	
4	PVCC	
5	GND	
6	GND	
7	Backlight +SW	
8	Backlight -SW	

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(7) LVDS(40-pin): 48-bit LVDS Header



Pin NO.	Pin Define	Pin NO.	Pin Define
Pin 1	LVDSA_DATAP3	Pin 2	LVDSA_DATAN3
Pin 3	LVDSA_DATAP2	Pin 4	LVDSA_DATAN2
Pin 5	LVDSA_DATAP1	Pin 6	LVDSA_DATAN1
Pin 7	LVDSA_DATAP0	Pin 8	LVDSA_DATAN0
Pin 9	LVDSB_DATAP3	Pin 10	LVDSB_DATAN3
Pin 11	LVDSB_DATAP2	Pin 12	LVDSB_DATAN2
Pin 13	LVDSB_DATAP1	Pin 14	LVDSB_DATAN1
Pin 15	LVDSB_DATAP0	Pin 16	LVDSB_DATAN0
Pin 17	GND	Pin 18	LCD_VCC
Pin 19	LCD_VCC	Pin 20	LCD_VCC
Pin 21	NC	Pin 22	EDID_3V3
Pin 23	GND	Pin 24	GND
Pin 25	GND	Pin 26	LVDS_CLKAP
Pin 27	LVDS_CLKAN	Pin 28	GND
Pin 29	GND	Pin 30	GND
Pin 31	LVDS_DDC_CLK	Pin 32	LCD_BKLT_EN
Pin 33	LCD_BKLT_PWM	Pin 34	LVDS_CLKBP
Pin 35	LVDS_CLKBN	Pin 36	BKLT_PWR
Pin 37	BKLT_PWR	Pin 38	BKLT_PWR
Pin 39	NC	Pin 40	LVDS_DDC_DATA

(8) EDP(40-pin): EDP Connector



Pin NO.	Pin Define	Pin NO.	Pin Define
Pin 1	NC	Pin 2	GND
Pin 3	EDP_DATA3N	Pin 4	EDP_DATA3P
Pin 5	GND	Pin 6	EDP_DATA2N
Pin 7	EDP_DATA2P	Pin 8	GND
Pin 9	EDP_DATA1N	Pin 10	EDP_DATA1P
Pin 11	GND	Pin 12	EDP_DATA0N
Pin 13	EDP_DATA0P	Pin 14	GND
Pin 15	EDP_AUXP	Pin 16	EDP_AUXN
Pin 17	GND	Pin 18	LCD_VCC
Pin 19	LCD_VCC	Pin 20	LCD_VCC
Pin 21	LCD_VCC	Pin 22	NC
Pin 23	GND	Pin 24	GND
Pin 25	GND	Pin 26	GND
Pin 27	EDP_HPD	Pin 28	GND
Pin 29	GND	Pin 30	GND
Pin 31	GND	Pin 32	LCD_BKLT_EN
Pin 33	LCD_BKLT_PWM	Pin 34	NC
Pin 35	NC	Pin 36	BKLT_PWR
Pin 37	BKLT_PWR	Pin 38	BKLT_PWR
Pin 39	BKLT_PWR	Pin 40	NC

2-2-2 Headers

(1) FP_AUDIO (10-pin): Line-Out, MIC-In Header

This header connects to Front Panel Line-out, MIC-In connector with cable.





Line-Out, MIC Headers







(3) USB1/USB2 (10-pin): USB 2.0 Port Headers

(4) JW-FP(10-pin): Front Panel Header







(5) CPUFAN/SYSFAN (4-pin block): Fan speed header



(6) CIR_CON (8-Pin): CIR Header







(7) COM1 (10-Pin): Serial Port Header





COM 1 Header

Chapter 3 Introducing BIOS

Notice! The BIOS options in this manual are for reference only. Different configurations may lead to difference in BIOS screen and BIOS screens in manuals are usually the first BIOS version when the board is released and may be different from your purchased motherboard. Users are welcome to download the latest BIOS version form our official website.

The BIOS is a program located on a Flash Memory on the motherboard. This program is a bridge between motherboard and operating system. When you start the computer, the BIOS program will gain control. The BIOS first operates an auto-diagnostic test called POST (power on self test) for all the necessary hardware, it detects the entire hardware device and configures the parameters of the hardware synchronization. Only when these tasks are completed done it gives up control of the computer to operating system (OS). Since the BIOS is the only channel for hardware and software to communicate, it is the key factor for system stability, and in ensuring that your system performance as its best.

3-1 Entering Setup

Power on the computer and by pressing immediately allows you to enter Setup. If the message disappears before your respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt> and <Delete> keys. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to

Press to enter Setup

3-2 BIOS Menu Screen

The following diagram show a general BIOS menu screen:



BIOS Menu Screen

3-3 Function Keys

In the above BIOS Setup main menu of, you can see several options. We will explain these options step by step in the following pages of this chapter, but let us first see a short description of the function keys you may use here:

• Press \leftrightarrow (left, right) to select screen;

- Press ↑↓ (up, down) to choose, in the main menu, the option you want to confirm or to modify.
- Press <Enter> to select.
- Press <+>/<-> keys when you want to modify the BIOS parameters for the active option.
- [F1]: General help.
- [F2]: Previous value.
- [F3]: Optimized defaults.
- [F4]: Save & Exit.
- Press [Esc] to quit the BIOS Setup.

3-4 Getting Help

Main Menu

The on-line description of the highlighted setup function is displayed at the top right corner the screen.

Status Page Setup Menu/Option Page Setup Menu

Press [F1] to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window, press [**Esc**].

3-5 Menu Bar

There are six menu bars on top of BIOS screen:

To change system basic configuration
To change system advanced configuration
To change chipset configuration
To change boot settings
Password settings
Save setting, loading and exit options.

User can press the right or left arrow key on the keyboard to switch from menu bar. The selected one is highlighted.

3-6 Main Menu

Main menu screen includes some basic system information. Highlight the item and then use the <+> or <-> and numerical keyboard keys to select the value you want in each item.

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Hour Advanced Chipset Boot Security Save & Exit		
BIOS Information BIOS Vendor Core Version Compliancy Project Version Filename Build Date and Time System Language System Come System Time	American Megatrends 4.6.5.1 UEFI 2.3: PI 1.2 BABFA 0.13 x64 BABFA001 04/16/2012 10:12:07 [English] [Fri 02/17/2012] [18:32:40]	Set the Date. Use Tab to switch between Data elements.
Access Level	Administrator	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt, F1: General HeIn F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.12	19. Copyright (C) 2012 America	n Megatrends, Inc.

Select Language

This item is for user to choose the system default language.

System Date

Set the date. Please use [TAB] to switch between data elements.

System Time

Set the time. Please use [TAB] to switch between time elements.

3-7 Advanced Menu

Aptio Setup Main Advanced Chipset	Utility - Copyright (C) 2012 American Boot Security Save & Exit	Megatrends, Inc.
Lounch PKE Option > CPU Configuration > SATA Configuration > USB Configuration > Super ID Configuration > PC Health Status		Enable or Disable Boot Options for Legacy Network Devices.
		<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Oefaults F4: Save & Exit ESC: Exit</pre>
Version 2.	14.1219. Copyright (C) 2012 American Mo	egatrends, Inc.

Launch PXE OpROM

Use this item to enable or disable boot option for legacy network devices.

CPU Configuration

Press [Enter] user can have a view of CPU basic information and make settings in sub-items.

Hyper-Threading

The optional settings are: [Disabled]; [Enabled].Set as [Enabled] for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and [Disabled] for other OS (OS not optimized for Hyper-Threading Technology). When set as [Disabled] only one thread per enabled core is enabled.

Limit CPUID Maximum

The optional settings are: [Disabled]; [Enabled].

This item should be set as [Disabled] for Windows XP.

Execute Disable Bit

The optional settings are: [Disabled]; [Enabled].

Intel Virtualization Technology

The optional settings: [Enabled]; [Disabled].

When set as [Enabled], a VHM can utilize the additional hardware capabilities provided by Vanderpool Technology.

Hardware Prefetcher

Use this item to turn on/off the Mid Level Cache (L2) streamer prefetcher.

Adjacent Cache Line Prefetch

Use this item to turn on/off prefetching of adjacent cache lines.

SATA Configuration

SATA Controller (s)

The optional settings are: [Disabled]; [Enhanced].

SATA Mode Selection

The optional settings are: [IDE Mode]; [AHCI Mode].

Serial ATA Port 0 / Serial ATA Port 1

The available running disk name will show on the screen. User can choose to enable or disable the available SATA port function and choose SATA device type.

E-SATA

Use this item to enable or disable E-SATA function.

m-SATA

Use this item to enable or disable m-SATA function.

USB Configuration

Legacy USB Support

The optional settings are: [Auto]; [Disabled]; [Enabled].

XHCI Hand-off

The optional settings are: [Disabled]; [Enabled].

EHCI Hand-off

The optional settings are: [Disabled]; [Enabled].

USB Transfer time-out

Use this item to set the time-out value for control, bulk, and interrupt transfers.

Device reset time-out

Use this item to set USB mass storage device start unit command time-out.

Device power-up delay

Use this item to set maximum time the device will take before it properly reports itself to the host controller. 'Auto' uses default value: for a root port it is 100 ms, for a hub port the delay is taken from hub descriptor. The optional settings: [Auto]; [Manual].Select [Manual] you can set value for the following sub-item: **Device Power-up delay in seconds,** the delay range in from 1 to 40 seconds in one second increments.

Super IO Configuration

Serial Port

Use this item to enable or disable serial port.

-Device Settings

The current device setting for serial port will show on the screen. When serial port function is set as [Disabled] this item will not appear.

-Change Settings

Use this item to select an optimal setting for super IO device.

CIR Controller

Use this item to enable or disable CIR controller.

-Device Settings

The current device setting for CIR controller will show on the screen.

CIR LED

The optional settings are: [Disabled]; [Enabled]. When CIR LED is enabled, the CTS of UART is disabled.

ERP Function

Use this item to enable or disable ERP function for this board. This item should be set as [Disabled] if you wish to have active all Wake-up functions.

WatchDog Timer

WatchDog Timer Control

Use this item to enable or disable WatchDog Timer Control. When set as [Enabled], the following sub-items shall appear:

WatchDog Timer Value

User can set a value in the range of 1 to 255.

WatchDog Timer Unit

The optional settings are: [Sec.];[Min].

PC Health Status

Press [Enter] to view hardware health status, set SMARTFAN configuration and select system shutdown temperature.

Shutdown Temperature Configuration

Use this item to select system shutdown temperature.

CPUFAN Type/SYSFAN Type

The optional settings are: [3-Pin]; [4-Pin].

SmartFan Configuration

CPUFAN Smart Mode/SYSFAN Smart Mode

Use this item to select CPUFAN smart mode and SYSFAN smart mode. When set as [Enabled], Use can set full-speed temperature, full-speed duty, idle-speed temperature and idle-speed duty for CPUFAN or SYSFAN specifically.

3-8 Chipset Menu

Aptio Setup Utility - Copyright (C) 2012 American Main Advanced (Ni)proof Boot Security Save & Exit	Megatrends, Inc.
 PCH-iu Configuration System Agent (SA) Configuration 	PCH Parameters
	<pre>++: Select Screen I4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.1219, Copyright (C) 2012 American M	egatrends, Inc.

PCH-IO Configuration

USB 3.0 Controller

The optional settings are: [Enabled]; [Disabled].

Mini PCIE1/ Mini PCIE2

Use this item to enable or disable Mini PCIE1 slot.

Mini-PCIE1 Speed/ Mini-PCIE2 Speed

The optional settings are: [Auto]; [Gen1]; [Gen2].

Onboard PCIE LAN

The optional settings are: [Enabled]; [Disabled].

Azalia

The optional settings are: [Enabled]; [Disabled].

-Azalia Internal HDMI Codec

Use this item to enable or disable internal HDMI codec for Azalia.

System State after Power Loss

The optional settings are: [Always Off]; [Always On]; [Former State].

USB Configuration

Press [Enter] to further setting USB port configuration.

EHCI1/EHCI2

The optional settings are: [Disabled]; [Enabled].

Use this item to control USB EHCI (USB 2.0) functions. One EHCI controller must always be enabled.

System Agent (SA) Configuration Graphics Configuration

Press [Enter] to further setting graphics configuration.

IGFx Frequency

The current IGFx frequency will show on the screen.

GTT Size

The optional settings are: [1MB]; [2MB].

Aperture Size

The optional settings are: [128MB]; [256MB]; [512MB].

DVMT Pre-Allocated

Use this item to select DVMT 5.0 pre-allocated (fixed) graphics memory size used

by the internal graphics device.

DVMT Total Gfx Mem

Use this item to select DVMT 5.0 total graphics memory size used by the internal graphics device.

DVI to CRT Dongle Support

The optional settings are: [Disabled]; [Enabled].

Active LFP

The optional settings are: [eDP]; [LVDS]; [Disabled].

LVDS Panel Type:

Use this item to manually select LVDS panel type.

*Note: LVDS Panel Type item is only available when Active LFP is set as [LVDS].

Backlight Control

The optional settings are: [PWM Inverted]; [PWM Normal].

Memory Configuration

This item is for user to press [Enter] to view current memory configuration.

3-9 Boot Menu



Boot Configuration

Setup Prompt Timeout

Use this item to set number of seconds to wait for setup activation key.

Bootup Numlock State

Use this item to select keyboard numlock state. The optional settings are: [On]; [Off].

Quiet Boot

The optional settings are: [Enabled]; [Disabled].

Boot Option Priorities

Boot Option #1

Use this item to decide system boot order from available options.

Hard Drive BBS Priorities

Use this item to set the order of the legacy devices in this group.

3-10 Security Menu



Security menu allow users to change administrator password and user password settings.

3-11 Save & Exit Menu

Save Changes and Reset Discard Changes and Reset Save Changes Discard Changes Restore Defaults Save as User Defaults Nostore User Defaults Boot Override #+: Select 11: Select Enter: Sel Fi: Genera F2: Previo F3: Optimil F4: Save A	o Satup Utility – Copyright (C) 2012 American Megatrends, Inc. hipset Boot Security Smark Bill
++: Select ti: Select Enter: Sel +/-: Chang Fi: Genera F2: Previo F3: Optimi F4: Save # F5C: Fyit	eset Restore the User Defaults to all the setup options.
	++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Oefaults F4: Save & Exit ESC: Exit

Save Changes and Reset

This item allows user to reset the system after saving the changes.

Discard Changes and Reset

This item allows user to reset the system without saving any changes.

Save Changes

This item allows user to save changes done so far to any of the setup options.

Discard Changes

This item allows user to discard changes done so far to any of the setup options.

Restore Defaults

Use this item to restore /Load default values for all the setup options.

Save as User Defaults

Use this item to save the changes done so far as user defaults.

Restore User Defaults

Use this item to restore defaults to all the setup options.