

USER MANUAL

C5750Z-C6 V2.0



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Catalog

Chapter 1 Product Introduction	4
1.1 Product Photo:	4
1.2 External I/O View	5
1.3 Dimension	5
1.4 Specification	6
1.5 Packing	7
1.6 Order Information	8
2.1 Installation Steps	9
2.1.1 Display (HDMI/VGA)	9
2.1.2 LAN (LAN1-2)	10
2.1.3 Power Button / Reset Button / ACLOSS	10
2.1.4 COM Port (COM1-6)	10
2.1.5 Phoenix Connector (GPIO/5V/Switch)	13
2.1.6 Power (12V)	13
2.1.6 Expansion Slot (MiniPCIE/M.2/USB)	13
Chapter 3 BIOS Setting	14
3.1. BIOS Description	14
3.2 BIOS Basic Function Setting	14
3.2.1 Enter Into BIOS Interface	14
3.2.2 Main Menu (BIOS information and time date)	15
3.2.3 Advance	16
3.2.4 ACPI Settings	17
3.2.5 Miscellaneous Configuration	18
3.2.6 Super IO Configuration	
3.2.7 PC Health Status	20
3.2.8 CPU Configuration	21
3.2.9 CSM Configuration	22
3.2.10 USB Configuration	
3.2.11 Chipset	23
3.2.12 Boot	
3.2.13 Security	26

3.2.14 Save&Exit	27
Appendix	28
Appendix one : Glossary of Terms	28
Appendix Two: Common issue analysis and solution	30

Chapter 1 Product Introduction

1.1 Product Photo:



Image 1: C5750Z-C6 front IO



Image 2: C5750Z-C6 rear IO



Image 3: C5750Z-C6 Internal

1.2 External I/O View

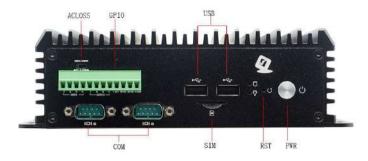
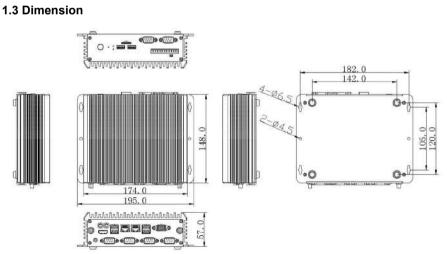


Image 1: Front IO View



Image 2: Rear IO View



C5750Z-C6 Dimension

5

1.4 Specification

Processor

Onboard Intel®i7-8565U/1.80GHz quad cores 4-thread processor, TDP 15W

> Chipset

Intel®SOC

Memory

2*DDR4 2400MHz SODIMM RAM slot, up to 64GB

≽ Display

1*HDMI 1.4, support Max. Resolution: 4096X2160@24Hz 1*VGA

≽ LAN

2*Intel I210 Gigabit Ethernet, support Wake On LAN

COM Port

6* DB9 RS232, COM5-6 RS232/485/422/CAN selectable

Expansion Slot

1*MiniPCIE, support 4G/WiFi module

1*M.2/WiFi, support Key-E 2230, WiFi module

Storage

1*2.5" SATA port

1*MSATA SSD port, transfer speed up to 6Gbp

Front IO Port

1*Power button, 1*one-key recovery, 1*ACLOSS(electric auto power ON/OFF)

1*Power LED, 1*SATA HDD

2*USB2.0, 1* inteernal USB2.0

1*12pin Phoenix connector (include 4*GPIO/1*power button signal/1*VCC5V)

2*RS232/485/422 DB9 COM port, support CAN (need install CAN module)

1*SIM slot

Rear IO port

1*HDMI, 1*VGA

2*Intel I210 Gigabit Ethernet, support Wake On LAN, PXE

4*USB3.0

4*RS232 DB9 COM port, COM1-2 support pin9 charging function

1*Line out, 1*Mic

1*DC 12V

Cooling System

Fanless design

> GPIO

4-in 4-out

Watchdog

Support hardware reset function (L256, 0~255 seconds)

Power Port

1*DC 12V

Chassis

Dimension: L174mm x W148mm x H57mm

Installation: Decktop/Embedded

> Working Environment

Operating Temp.: -10°C~50°C

Relative Humidity: $5{\sim}90\%$ relative humidity, non-condensing

Storage Temp.: -20°C~60°C

1.5 Packing

- Packing Size: L270mm x W230mm x H90mm
- N.W.: 1.35KG
- ≽ G.W.: 2.0KG
- Accessory List:

Name	Qty
Screws	4pcs

1.6 Order Information

No	Model	CPU	Memory	GPIO	LAN	СОМ	HDMI	VGA	USB	power
1	C5750Z-C6 V2.0(J1900)	J1900/2.0G	1*SODDR3L	4-in 4-out	2	6	1	1	7	DC 12V
2	C5750Z-C6 V2.0(4300U)	i5-4300U/1.8G	1*SODDR3L	4-in 4-out	2	6	1	1	7	DC 12V
3	C5750Z-C6 V2.0(5020U)	i3-5020U/2.0G	1*SODDR3L	4-in 4-out	2	6	1	1	7	DC 12V
4	C5750Z-C6 V2.0(6650U)	i7-6650U/2.2G	2*SODDR4	4-in 4-out	2	6	1	1	7	DC 12V
5	C5750Z-C6 V1.0(7200U)	i5-7200U/2.5G	2*SODDR4	4-in 4-out	2	6	1	1	7	DC 12V
6	C5750S-C6 V1.0(8145U)	i3-8145U/2.1G	2*SODDR4	4-in 4-out	2	6	1	1	7	DC 12V
7	C5750S-C6 V1.0(8265U)	i5-8265U/1.6G	2*SODDR4	4-in 4-out	2	6	1	1	7	DC 12V
8	C5750S-C6 V1.0(8565U)	i7-8565U/1.8G	2*SODDR4	4-in 4-out	2	6	1	1	7	DC 12V

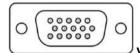
Above order information just for reference

Chapter 2 Interface Definition

2.1 Installation Steps

2.1.1 Display (HDMI/VGA)

1*VGA, 1*HDMI dual independent display



VGA Signal Definition

Pin	Signal Name	Pin	Signal Name
1	RED	2	GREEN
3	BLUE	4	ID2
5	GND	6	RGND
7	GGND	8	BGND
9	KEY	10	GND
11	ID0	11	ID1
13	HSYNC	14	VSYNC
15	ID3		



HDMI Signal Definition

right bonntion					
Pin	Signal Name	Pin	Signal Name		
1	TMDS Data2+	2	TMDS Data2 Shield		
3	TMDS Data2-	4	TMDS Data1+		
5	TMDS Data1 Shield	6	TMDS Data1-		
7	TMDS Data0+	8	TMDS Data0 Shield		
9	TMDS Data0-	10	TMDS Clock+		
11	TMDS Clock Shield	12	TMDS Clock-		
13	CEC	14	HRC Data-		
15	SCL	16	SDA		
17	GND	18	+5V		
19	Hot Plug Detect				

2.1.2 LAN (LAN1-2)

2*Intel I210AT Gigabit Ethernet

LAN Port				
SPEED LED				
ACT/LINK LED				

LAN LED Definition

Active/Link LED		SPEED LED	
State	Description	State	Description
Off	No Link	Off	10Mbs Connection
Blinking	Data Activity	Orange	100Mbs Connection
On	Link	Green	1Gbps Connection

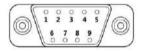
2.1.3 Power Button / Reset Button / ACLOSS

1* Power button [PWR], 1*Reset button [RST], 1*Power LED [PWRLED],

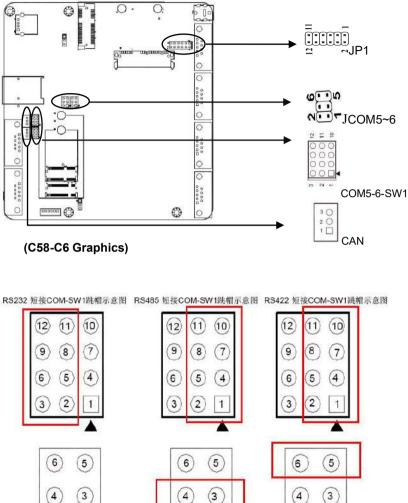
1*HDDLED, 1*ACLOSS switch [ON/OFF] (electric auto power ON/OFF)

2.1.4 COM Port (COM1-6)

6* DB9 RS232 DB9, COM1-2 support pin9 5V/12V charging, setting via JP1 jumper, COM5-6 RS232/485/422/CAN selectable via JCOM/COM-SW jumper, need install CAN module to use CAN function.



(COM Port Graphics)



④ ③② 1

RS232 短接JCOM跳帽示意图

RS485 短接JCOM跳帽示意图

2

RS422 短接JCOM跳帽示意图

1

2

(RS232 Jumper Setting) (RS485Jumper Setting) (RS422 Jumper Setting)

1

COM 1-6 Signal Definition

Pin	Signal Name	Pin	Signal Name
1	RS485/DCD	2	RS485/RXD

3	TXD/RS422+	4	DTR/ RS422-
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

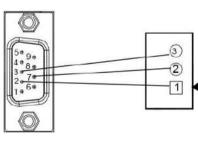
COM 5~6 RS232/485/422/CAN Setting

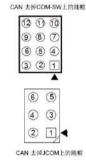
	JCOM5/6	COM5/6-SW1
RS232	Short 1-2 pin	Short 2-3,5-6,8-9,11-12 pin
RS485	Short 3-4 pin	Short 1-2,4-5,7-8,10-11 pin
RS422	Short 5-6 pin	Short 1-2,4-5,7-8,10-11 pin
CAN	Remove jumper	Remove jumper

CAN Port Definition

Pin	Signal Name	Pin	Signal Name
1	RXD(DB9 pin2)	2	RTS(DB9 pin7)
3	TXD(DB9 pin3)		

Remark: when use CAN port, need remove JPCOM and JCOM jumper





СОМП

CAN座子

(CAN signal pin on DB9COM) (CAN port jumper setting: remove the jumper)

JP1 (COM1-2 5V/12V Setting) Definition

Setting	Function (JP4)	
Short 1-2 pin	RS232	
Short 3-4 pin	+5V	COM1
Short 5-6 pin	+12V	
Short 7-8 pin	RS232	
Short 9-10 pin	+5V	COM2
Short 11-12 pin	+12V	

2.1.5 Phoenix Connector (GPIO/5V/Switch)

1*12pin Phoenix connector(include 4-in 4-outGPIO/1*power switch/1*VCC)

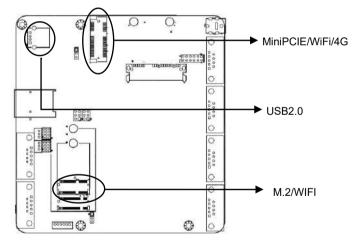
Pin	Signal Name	Pin	Signal Name
1	GPI 1	2	GPI 2
3	GPI 3	4	GPI 4
5	GPO 1	6	GPO 2
7	GPO 3	8	GPO 4
9	+5V	10	GND
11	FP_SPSW	12	GND_485

2.1.6 Power (12V)

1* 12V DC_In Jack

2.1.6 Expansion Slot (MiniPCIE/M.2/USB)

M.2 WiFi slot, 1*MINIPCIE, support 4G/WiFi, 1* internal USB2.0 horizontal type, can install USB dangle



(C58-C6 Graphics)

Tips:

Please use a dedicated power adapter. After confirming that the interface is connected correctly, press the POWER button on the front panel of the computer to turn on the device. How to identify the alarm sound: (a long beep is system memory error; a short beep" is boot sound).

Chapter 3 BIOS Setting

3.1. BIOS Description

BIOS (Basic Input and Output System), via CMOS chip on motherboard, it recorded parameter settings of each hardware of the system. BIOS contains the BIOS setup program, for users to set system parameters according to their own needs, to make the motherboard work normal or execute specific function.

Through BIOS setup program to modify the settings (except date and time), which are stored in the flash memory of system, the power required to memorize CMOS data are supplied by the battery on board, so when the system power off, the data will not lost, when next time re-open the power, system will read the set data. If needed to restore factory setting at the circumstance when can not enter the Setup interface due to misconduct, please short circuit JBA12,3 pin to clear CMOS data.

Note! BIOS settings directly affect the performance of the computer, wrong set parameters will cause damage to the computer, or even can not boot, please use the BIOS built-in default values to restore the normal operation of the system.

Due to the company's different product, the interface will be slightly different, the flowing image for reference only, it may be not exactly the same with your current using BIOS setup program.

3.2 BIOS Basic Function Setting

3.2.1 Enter Into BIOS Interface

Following below steps to enter into BIOS interface

1. Power on, the display screen will appear POST interface.

When the screen appears "click or<ESC> to enter setup", please click
 DEL>or <ESC>, and you can enter the BIOS setup program

3. Move the arrow key $< \uparrow >< \downarrow >< \leftarrow >< \rightarrow >$ to the options which you want to modify, click <Enter>, and you can enter the sub-screen of the option

4. Use the arrow keys and the <Enter> key to modify the value of the selected items, click the Enter key to select BIOS option and modify.

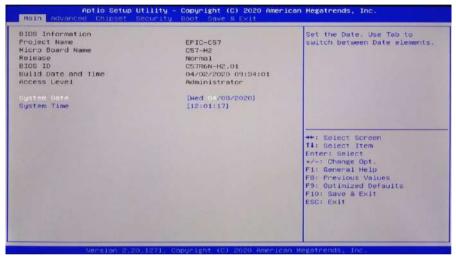
5、Use the <ESC> key to return to the last picture

6、 <Page Up/+> Add numeric value or change

<Page Down/-> Reduce numeric value or change

- <F1> Set sub menu help
- <F9> Set default values (optimize to factory settings)
- <F10> Save BIOS settings

3.2.2 Main Menu (BIOS information and time date)



Bios ID:

Build Date and Time :

Access Level:

System language:

System Date :

Set the current date. In the form of month / day / year. The setting range is:

Month (Jan.-Dec.), Date(01-31), Year(Max to 2099), Week(Mon.~Sun.).

System Time :

Set the current time, In the form of time/minute/second, The setting range is: Hour(00-23), Minute(00-59), Second(00-59).

3.2.3 Advance

CPU Configuration Tis Auth Configuration	EPU Configuration Parameters
ACPI Settings Miscellaneous Configuration	
IT8786 Super IO Configuration	
Hardware Monitor USB Configuration	
CSM Configuration NVMe Configuration	
	++: Select Screen T1: Select Item
	Enter: Select
	+/-: Change Opt. Fi: General Help
	FB: Previous Values
	F9: Optimized Defaults F10: Save & Exit
	ESC: Exit

ACPI Settings : Advanced configuration and power management interface settings.

IT8786 Super IO Configuration: contains COM port interrupt number and address settings

Hardware Monitor: system monitoring, hardware monitoring, hardware monitor

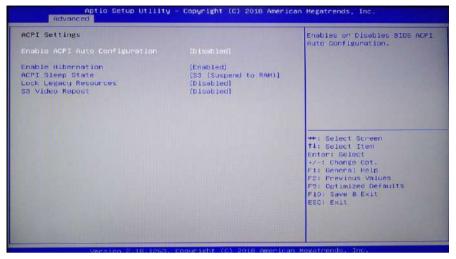
Miscellaneous Configuration : include timing start up, power on auto start-up, watchdog, etc.

CPU Configuration:

USB Configuration:

CSM Configuration:

3.2.4 ACPI Settings



Enable ACPI Auto Configuration : This item is automatically configured for the ACPI, Allow (Enabled) or close (Disabled) BIOS ACPI automatic configuration, default is close (disabled).

Enable Hibernation : Enabled or Disabled system sleep function (OS/S4 sleep state). This option does not take effect under some OS. Default is Enabled.

ACPI Sleep State : This is used to select the system to enter the power system sleep mode, the pattern is not the same, the system power consumption is not the same degree, Suspend Disabled; close the sleep mode, S1(CPU Stop Clock): CPU stops working, other devices are still normal power supply; S3(Suspend to Ram): Hang up to memory.

Lock Legacy Resources : Resource latch, (Enabled) or (Disabled) resource latch function.

3.2.5 Miscellaneous Configuration

Resume On RTC Alarm RTC Alarm Date (Days) RTC Alarm Time(Hours) RTC Alarm Time(Hinutes) RTC Alarm Time(Seconds) Restore AC Power Loss Hatch dog Controller	(Enabled) (EveryDay) 15 15 15 [Power Off] [Disabled]	RTC Alarm setting
GPI01 Modules Settings GPI0 1 Controller SPI0 2 Controller SPI0 3 Controller SPI0 4 Controller GPI0 5 Controller GPI0 6 Controller GPI0 8 Controller GPI0 2 Controller GPI0 4 Controller GPI0 4 Controller GPI0 8 Controller GPI0 8 Controller		<pre>**: Select Screen T4: Select Item Enter: Select +/-: Change Opt, F1: General Help F2: Previous Values F9: Ortimized Defaults F10: Save & Exit ESC: Exit</pre>

Resume On RTC Alarm :

RTC Alarm Date(Days):

RTC Alarm Time(Hours):

RTC Alarm Time(Minutes):

RTC Alarm Time(Seconds):

RTC Alarm Date (Days) RTC Alarm Time(Hours) RTC Alarm Time(Hinutes) RTC Alarm Time(Seconds)	[EveryDay] 15 15	Select AC power state when power is re-applied after a power failure.
RTC Alarm Time(Minutes) RTC Alarm Time(Seconds)		
RTE Alarm Time(Seconds)	15	
	15	
Watch dog Controller	[Disabled]	
GPIO1 Modules Settings		
GPIO 1 Controller	[Input Mode]	
GPIO 2 Controller	- Restore AC Power Loss	
GPIO 3 Controller	ower Off	
	ower On	
GPIO 5 Controller		+: Select Screen
GPIO 6 Controller		1: Select Item
GPIO 7 Controller	[Input Mode]	Enter: Select
GPIO 8 Controller	[Output Mode]	+/-: Change Opt.
GPIO 2 Controller	[Low]	F1: General Help
GPIG 4 Controller	[Low]	F2: Previous Values
GPID 6 Controller	[Low]	F9: Optimized Defaults
SPID B Controller	[Low]	F10: Save & Exit
		ESC: Exit

Restore AC Power Loss: this option is used to set the power on condition after connecting to electric. Power Off: need to press power button to power on; Power

On: Power on directly after connecting to electric; Last State: keep previous state after connecting to electric.



Watch dog controller: [Disabled] disable watchdog, [Second mode] set the watchdog to seconds mode, [Minute Mode], set the watchdog to minute mode.

3.2.6 Super IO Configuration

IT8786 Super IO Conf.	Iguration	Set Parameters of Serial Port 1 (COMA)
Super IO Chip	IT8786	
 Serial Port 2 Configu 		
Serial Port 3 Config		
Serial Port 4 Config		
 Serial Port 5 Config Serial Port 6 Config 	unation	
		++: Select Screen T4: Select Item Enter: Select +/-: Change Oot. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit

Serial Port 1 Configuration: Super IO configuration information, including COM port

interrupt number and address setting.

Serial Port 2 Configuration:

Serial Port 2 Configuration:

Serial Port 3Configuration:

Serial Port 4 Configuration:

Serial Port 5 Configuration:

Serial Port 6 Configuration:

3.2.7 PC Health Status

Pc Health Status		Smart Fan 1 Mode Select
System temperature	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	A CONTRACT OF A CONTRACT OF A CONTRACT
CPU temperature	: +43 C	
CPUFan Speed	: +46 C	
croran speen	: NZA	
Smart Fan Function		
Fan off temperature limit	45	
Fan start temperature limit	50	
Fan full speed temperature limit	75	
Fan start PWM	90	the second se
PAM SLOPE SETTING	в	
		++: Select Screen
		T4: Select Item
		Enter: Select
		+/-: Change Opt.
		F1: General Help
		F2: Previous Values
		F9: Optimized Defaults
		F10: Save & Exit
		ESC: Exit
		A DESCRIPTION OF A DESC
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PC Health Status: shows the current system temperature, CPU temperature, fan speed, and other relevant voltage value. The above parameters have a certain range, system cannot operate beyond the scope.

Smart Fan 1 Mode: This option is whether or not open the CPU automatic fan control function, used to adjust CPU fan speed automatically according to the real-time detected CPU temperature, to achieve the purpose of saving energy.

Fan off temperature limit: Fan stop minimum temperature setting.

Fan start temperature limit: Fan start minimum temperature setting.

Fan start PWM: Fan start PWM value setting.

PWM slope setting:

3.2.8 CPU Configuration

CPU Configuration		When enabled, a VMM can utilize the additional
Type ID Speed Stepping Number of Processors Microcode Revision GT Info C1 Data Cache VMX	Intel(R) Core(TM) 17-66601 CPU 0 2.40GHz 0x406E3 2400 HHz 00/K0 2Core(s) / 4Thread(s) CC GT3 (0x1926) 32 KB × 2 Supported	hardware capabilities provided by Vanderpool Technology,
SHX/TXT Intel (VHX) Virtualization	Supported	++: Select Screen T1: Select Item
		Enter: Select
Hyper-Threading	[Enabled]	<pre>+/-: Change Opt. F1: General Help F3: Frevious values F5: Optimized Defaults F10: Save & Exit ESC: Exit</pre>

Read only items contain details of the CPU, including the CPU manufacturers,

models, frequency, the first level cache size, the second level cache size and other information.

Intel Virtualization Technology :

Intel Virtualization Technology Is Intel's CPU in the system of virtual technology. It makes it possible to enable a PC running a plurality of OS, VT technology is in various types of processors, including dual core processor play very important role, this technique allows the processor with and / or virtualization technology, using Vanderpool technology, we can run two operating systems simultaneously on the same machine. In which a processor running an operating system, another processor running another operating system.

3.2.9 CSM Configuration

Compatibility Support Module	Configuration	Controls the execution of UEFI and Legacy PXE OpROM
CSM Support Option RDM execution Junch Network PAE OpEOM Video	(Enobled) (Do not imunch) (Legacy)	
	Launch Network PXE OpROM Do not launch UEFI Legocy	: Select Screen : Select Item ter: Select
		+/-: Change Opt. F1: General Help F3: Previous Values F3: Optimized Defaults F10: Save & Exit

Launch Network PXE OpRom: set None-Disk boot; Do not launch: close None-disk boot; UEFI: set non-disk boot mode as UEFI; Legacy: set None-Disk boot as Legacy mode.

3.2.10 USB Configuration

JSB Configuration		Enables Legacy USB support.
JSB Module Version	21	AUTO option disables legacy support if no USB devices are
		connected. DISABLE option wil.
JSB Controllers: 1 XHCI		keep USB devices available
ISB Devices:		only for EFI applications.
1 Keyboard, 1 House		and the second se
.egacu USB Support		
KHCI Hand-off	[Enab1ed]	
JSB Mass Storage Driver Support	(Enabled)	
Port 60/64 Emulation	[Enabled]	
		+: Select Screen
		14: Select Item Enter: Select
		+/-: Change Opt.
		F1: General Help
		F8: Previous Values
		F9: Optimized Defaults
		F10: Save & Exit
		ESC: Exit
		and the second se

Legacy USB Support :

This is used for old version USB setting, if need to support USB devices in DOS,

such as U disk, USB keyboard, etc., choose the option [Enabled] or [Auto]. on the contrary, choose [Disabled].

XHCI Hand-off :

When operating system does not support XHCI, whether to allow BIOS to take over XHCI control

USB Mass Storage Driver Support :

3.2.11 Chipset



PCH-IO Configuration :

South bridge configuration option, include audio card, LAN card options, etc.

System Agent (SA) Configuration :

North bridge configuration options, include video memory, display device, LVDS, etc.



VT-d :

Intel's I/O virtualization technology, need chipset to support it, some chipset support, some don't. The BIOS will show or hide this option according to different chipset. Please enable it when installing virtual computer.

Memory Configuration:

Graphics Configuration:

DVMT Pre-Allocated: Dynamically allocate the value of video memory.

DVMT Total Gfx Mem: Dynamically allocate the value of the total graphics card.

Aperture Size:

GTT Size:

Primary IGFX Boot Display : Vbios selection, Graphics boot configuration.

3.2.12 Boot

Aptio Setup Util. Main Advanced Chipset Secur	ity – Copyright (C) 2018 Ameri rity Boot Save & Exit	Lean Megatrends, Inc.
Boot Configuration		Number of seconds to wait for
	1	setup activation key.
Dulet Boot	[Disabled]	65535(0xFFFF) means indefinite waiting.
Boot Option Priorities		
Boot Option #1	[UEFI: SanDisk,	
	Partition 1]	
Boot Option #2	[UEF1: Built-in EF1	
buse operative	Shell1	
Boot Option #3	[SanDisk]	
Fast Boot	[Disabled]	
Past boot	Considerents	
New Boot Option Policy	[Default]	
New book operation correst	Level and a ca	++: Select Screen
USB Device BBS Priorities		11: Select Item
USB DEVICE BBS FFIDELIES		Enter: Select
		+/-: Change Opt.
		F1: General Help
		F2: Previous Values
		F9: Optimized Defaults
		F10: Save & Exit
		ESC: Exit
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Version 2.18.120	33. Copyright (C) 2018 America	an Megathends, Inc.

Setup Prompt Timeout: click the Setup shortcut key to wait time. If have not click the setup shortcut key in the setup time it will continue to boot.

Quiet Boot: (Disabled or, enabled).

Fast Boot : (Disabled or, enabled).

Boot Option Priorities : system will inspect device in accordance with the set procedure, until find a device that can be boot, and then boot from this device. Boot option #1 is the most preferred boot device.

3.2.13 Security

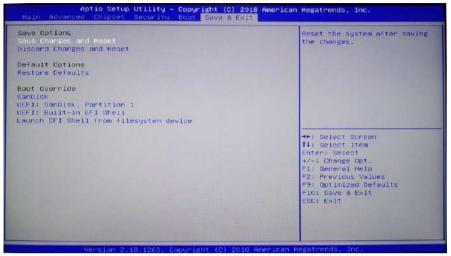
Password Description		Set Administrator Password
If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup. If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights. The password length must be in the following range: Minimum length 3		
Maximum length Administrator Password	20	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F10: Save & Exit ESC: Exit</pre>

Password character length hint: the minimum length is 3, the maximum length is 20.

Administrator Password :

The option is used to set the super user password.

3.2.14 Save&Exit



Save Changes and Reset : Save the BIOS settings, and exit the settings interface, continue to start the computer

Discard Changes and Reset : Discard changes and exit setup interface, restart the

computer.

Restore Defaults: Load optimization settings, if choose this, the system will be set according to the factory's optimal value.

Boot Override : Select the specified Boot devices, such as SATA hard disk, U disk, Shell EFI, PXE and so on, direct Boot, do not save and exit, press F11 to select the specified device Boot.

Appendix

Appendix one : Glossary of Terms

ACPI

Advanced configuration and power management. The ACPI specification allows the operating system to control most of the power of the computer and its additional equipment.

BIOS

Basic input / output system. It's a software that contains all the input/output control code interface in PC When the system starts, it carries out the hardware detection., began to the operation of the operating system, between the operating system and hardware to provide an interface. BIOS is stored in a read-only memory chip.

BUS

in a computer system, the exchange of data between the different parts of the channel, is a set of hardware lines. We refer to the BUS is usually CPU and main memory components within the local circuit.

Chipset

Chipset Is designed to perform one or more functions integrated chip. We refer to is composed of South Bridge and North Bridge System on chip group, It determines the structure and main function of the motherboard.

CMOS

Complementary metal oxide semiconductor. Is a widely used semiconductor type. It has the characteristics of high-speed, low power consumption. We refer to CMOS is on the motherboard CMOS ram reserved space, used to save the date, time,

system

information and system parameter setting information.

СОМ

Serial port, a universal serial communication interface, generally use the standard DB9 common interface connection mode.

DIMM

C5750Z-C6

Dual in-line memory module. A memory chip group of small circuit board. The memory bus width of 64bit.

DRAM

Dynamic random access memory. A normal computer general memory types. A transistor and a capacitor is usually used to store a single bit. With the development of technology, type and specification of DRAM has in computer application becomes

more and more diverse. For example, are now commonly used are: SDRAM, DDR SDRAM and RDRAM.

LAN

Local area network interface. A small region mutual association of computer is composed of a computer network is generally in a business unit or building. LAN is generally by the server, workstations, some communication links, a terminal can anywhere through the wire access to data and equipment. Many users can be expensive equipment and resource sharing.

LED

Light emitting diode, a semiconductor device, when the current flows through it will be lit, usually used to represent the information very intuitive, such as the power supply has been turned on or the hard drive is working.

PnP

Plug and play. Allows the PC external devices to be automatically configured, users can not manually operate the system can work on their own specifications. To achieve this feature, BIOS support PnP and a PnP expansion cards are required.

POST

During the start up system, BIOS will perform a continuous testing on the system, including the detection of RAM, keyboard, hard drives, etc., to see whether they are properly connected and whether the normal work.

PS/2

The IBM development of a keyboard and mouse interface specification.PS/2 is a DIN only 6PIN interface can also be used to connect to other devices such as a modem.

USB

Universal serial bus. A suitable for low-speed peripherals hardware interface,

typically used to connect the keyboard, mouse, and so on. A PC up to 127 USB devices connected to provide a 12mbit / s transmission bandwidth; USB support hot swap and multiple data stream function, namely in the system can plug in a USB device, the system can automatically identify and allow the insertion of the device normal.

Appendix Two: Common issue analysis and solution

Common Faults	Check Points	
	1. Make sure the power cable is connected properly	
	2. Please confirm all the power supply can meet the requirements	
	of the motherboard	
No start up after	3. Try to re-plug the memory	
connecting power	4. Try to change the memory	
	5. Try to clear the CMOS according to motherboard manual	
	6. Please confirm whether there is an external card, remove the	
	card and check again	
VGA no display after power on	1 To check whether the monitor is open	
	2 Check whether the power cable is properly connected to the	
	monitor and system unit	
	3 Check whether the display cable is properly connected to the	
	system unit and the display	
	4 Check whether the display brightness control is set to the dark	
	state, can improve brightness through the brightness control.	
	5 Display in the "power save" mode, press any key on the keyboard	
	1. Please check whether the CMOS battery voltage is lower than	
BIOS Setup can not	2.8V, if so, please replace a new battery, set again and save	
be saved	2. BIOS settings are not correct, according to the boot screen	
	prompt button (DEL), adjust the time and date in the Setup BIOS	
Prompt message	1. Please check whether the hard drive power cord, data cable is	
cannot find bootable	connected normally	
device	2. Please check whether the hard disk has physical damage	

	3. Please check whether the operating system is normally installed
	on the hard disk
	1. Please check whether the memory card and the card is loose
Blue screen or crash	2. Try to remove the newly installed hardware, uninstall the driver or
when enter into OS	software
	3. Try to replace the memory
Slow speed to enter into OS	1. Try to use third party software to check whether the hard disk has
	bad sectors
	2. Please check whether the hard disk remaining space is too small
	for operating system.
	3. Please check whether the CPU cooling fan is rotating normally
System restart automatically	1. Please check whether the CPU cooling fan is rotating normally
	2. Please check whether triggered reset button wrongly
	3. Please use anti-virus software to confirm whether the system is
	infected with the virus
	4. Please check whether the memory card and the card is loose
	5. Please confirm that the power capacity is sufficient, can try to
	replace the power supply
	1. Please check whether the USB device needs separate power
Can not detect USB	supply
device	2. Please check whether the USB interface has bad contact
	3. Please check whether the USB controller is open in BIOS Setup