

Intel® Celeron® J1900 Panel PC with 10.1"/12.1"/15" Color TFT LCD

Display

1 Product Introduction

The IFC-5XXJ1900 is a TFT LCD touch tablet with Intel low power embedded J1900 processor, 4GB DDR3 memory, dual display, dual SSD storage, wide voltage 9-36V input, compact, fan free, high computing performance. Front panel protection grade IP65, die-cast aluminum alloy body and full plane touch screen, waterproof and dustproof function, suitable for harsh industrial environment.

Technical Innovation

One-key restore system

Bositeng "One-key Restore System" is a simple and easy-to-use application that can help you back up and restore the computer's system partition (C partition) data; it runs without entering the Windows operating system. For specific technical implementation details, please contact your supplier for technical support.

Remote switch button interface

The hardware switch interface, in the case that the operator is far away from the machine and it is inconvenient to switch the machine, it is left to the customer to place the power switch of the machine in a place that is convenient for operation.

A configurable interface

Two 9-pin RS232 serial port headers, one 8-bit GPIO interface header, and one VGA interface header are integrated on the motherboard. These interfaces can be connected to the IO board according to the actual needs of customers.

Integrated amplifier and two 1W 8Ω speakers

The onboard HDA audio controller and stereo power amplifier output can be used to output voice and alarm signals.

1.2 Specification

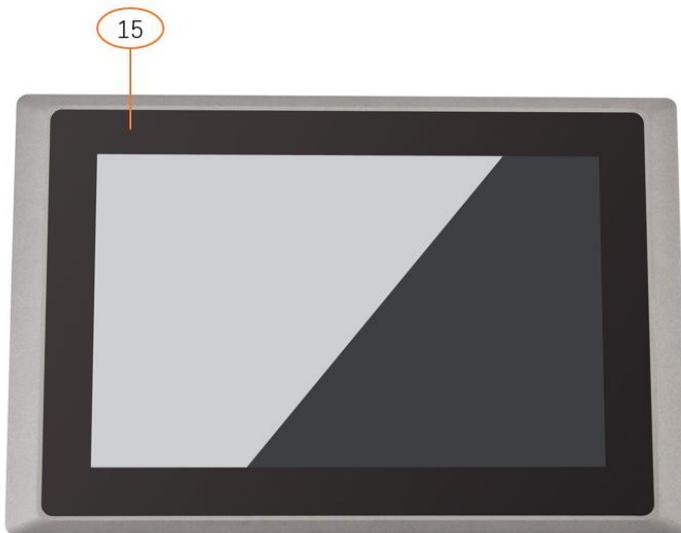
	IFC-510RJ1900	IFC-510CJ1900	IFC-512RJ1900	IFC-512CJ1900	IFC-515RJ1900	IFC-515CJ1900
Size	10.1"	10.1"	12.1"	12.1"	15"	15"
	TFT LCD					
Resolution	1280x800(1024x600 optional)	1280x800(1024x600 optional)	1024 x 768	1024 x 768	1024 x 768	1024 x 768
Brightness	400	500	500	500	300	300
Color	16.2M	16.2M/262k	16.7M/262k	16.7M/262k	16.7M	16.7M
Viewing	-85~85° (H), -85~85° (V)	-85~85° (H), -85~85° (V)	-89~89° (H), -89~89° (V)	-89~89° (H), -89~89° (V)	-85~85° (H), -85~85° (V)	-85~85° (H), -85~85° (V)
ELED Life	30,000	50,000	30,000	30,000	45,000	45,000
	5 wire Resistive touch	PCAP touch	5 wire Resistive touch	PCAP touch	5 wire Resistive touch	PCAP touch
Transparency	≥76%	≥76%	≥76%	≥76%	≥76%	≥76%
Working Life	10,000,000 times click at least					
Dimension	289.5 x 192.4 x 48.3mm	289.5 x 192.4 x 48.3mm	318.8 x245 x56.5mm	318.8 x245 x56.5mm	376.1 x 285.3 x 58.7mm	376.1 x 285.3 x 58.7mm
Weight	2.6kg	2.6kg	2.8kg	2.8kg	4.1kg	4.1kg
power consumption	18W	18W	20W	20W	22W	22W

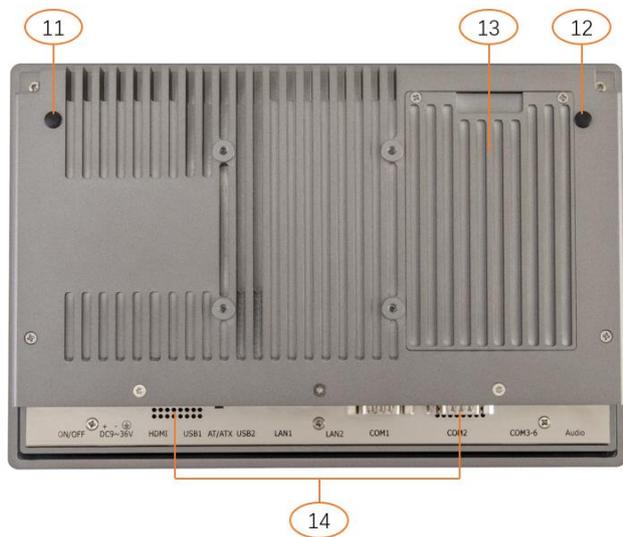
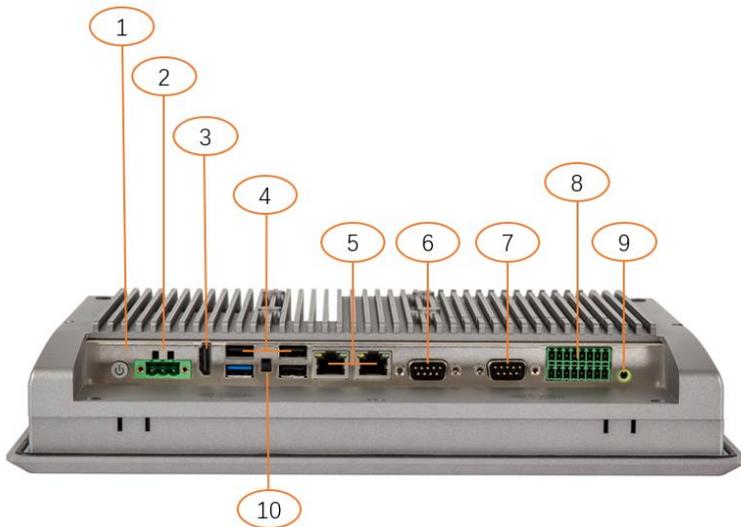
System	
CPU	Intel® Celeron J1900 2.0GHz, up to 2.42GHz
RAM	DDR3 4GB
I/O	1 x 3 pin 5.0mm Phoenix connector 3 x USB2.01, 1 x USB3.01, built in 1xUSB2.0 Dongle interface 2 x 3-wire COM3&COM4 RS-232/485 Green Phoenix connector 2 x 3-wire COM5&COM6 RS-232 Phoenix 2 x DB-9 COM1&COM2, RS-232/422/485 1 x HDMI 1 x AT/ATX 1 x Audio Line-out 1 x 14bit GPIO (Optional) 1 x Phoenix terminal Remote switch port 2 x 8Ω 1W Power amplifier output (optional)
Store	1 x mSATA 1 x SATA(2.5 inch)
expansion slot	1 x Mini-PCIE Full card, onboard SIM card slot, support 3G/4G module 1 x Mini-PCIE Half card, support WIFI bluetooth

Support system	Windows 7/8.1/10, WES7, WEC7, Android, Linux
Power	
Power input	9 ~ 36 VDC
Material	
Front	aluminium alloy
Back	aluminium alloy
IP Grade	Front IP65
Operating Environment	
Operationg Tem.	-20°C to 60°C
Store Tem.	-30°C to +70°C
Store humidity	10~90% @30 °C, No condensation
Certification	
Regular	CE, CCC
EMC	CE, FCC, CCC Class A

1.4 Interface

Provides a variety of I/O interfaces, including one I/O interface that can be flexibly configured.





Number	function
1	DC ON/OFF
2	Power connector
3	HDMI
4	USB2.0/3.0 x4
5	Intel I211 Gigabit Ethernet interface X2
6	COM1 RS232/422/485
7	COM2 RS232/422/485 Or GPIOX14(Optional)
8	COM3456 COM3,COM4 RS232/485 COM5,COM6 RS232
9	Audio output interface

10	AT/ATX selector switch
11	WIFI,3G,4G antenna interface
12	WIFI,3G,4G antenna interface
13	SSD hard disk interface
14	Power amplifier output horn 1W 8Ω (Optional)
15	Power LED

2 Installation methods

2.1 Install Hard disk

The system has two built-in hard disk ports. One 7+15 Pin port is used for connecting 2.5-inch hard disks and the other is used for connecting mSATA disks. A hard disk bracket is designed on the fuselage to facilitate the disassembly and installation of hard disks.





2.5 inch hard disk

mSATA



Step1 Use a Phillips screwdriver to remove the two screws that secure the hard disk bracket



Step2 Open the hard disk bracket, you will see two built-in SSD interfaces. Considering the user's demand for dual

SSDS, we choose high SATA Slim connector and low mSATA connector in the design, so that the combination of one high and one low can avoid the conflict when using dual SSDS.

Step3 MSATA Insert the mSATA connector into the mSATA connector and fasten the screws

Step4 Insert the SATA Slim into the SATA connector and screw it

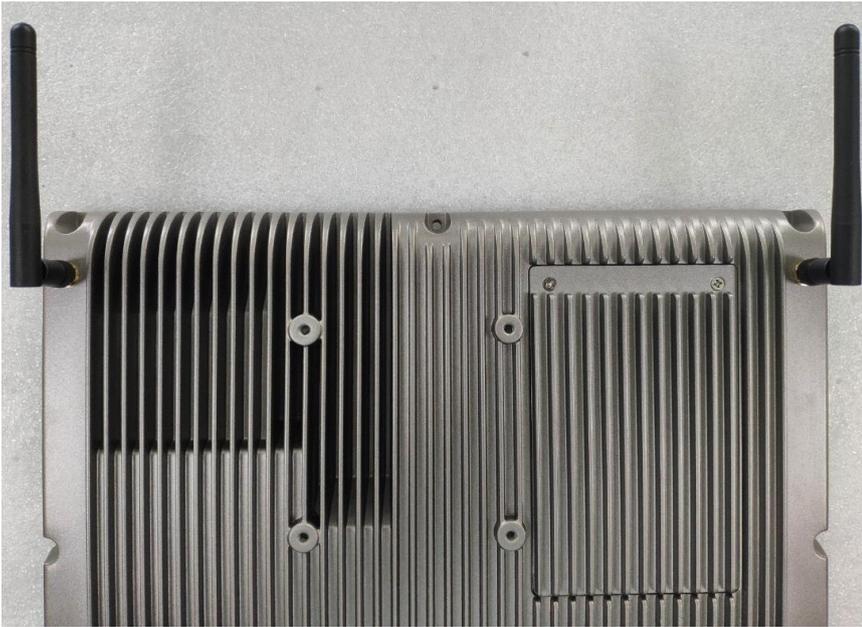
2.2 InstallWifi 4G

Step1 Open the hard disk cover, use the complimentary pan head cross screw M2*4, fix the corresponding wifi and 4G modules, and connect the antenna head.



Step2 Screw on the antenna





PS:mSATA hard disk, Wifi and antenna are optional components.

2.2 Installation and fixing of machine

The panel is recessed, and there are 6 bow grooves around the machine, which are used to hold the body in place when the panel is recessed.



VESA75 installation, in the back of the machine, designed a standard VESA75 mounting hole position, using this way of installation requires a VESA75 bracket



3 IO port

3.1 COM

A maximum of six serial ports are supported. The following is the list of working modes supported by each serial port:

Mode \ com	COM1	COM2	COM3	COM4	COM5	COM6
RS232	Support	Support	Support	Support	Support	Support
RS485	Support	Support	Support	Support	nonsupport	nonsupport
RS422	Support	Support	nonsupport	nonsupport	nonsupport	nonsupport

Notice:

COM3 and COM4 are 5-wire serial ports (TXD / RXD /GND/DCD);
 COM5 and COM6 are 3-wire serial ports (TXD / RXD /GND)
 By default, the factory settings of COM1~6 are RS232 mode;

There is a COM interface and a 14-bit GPIO interface on the motherboard. These interfaces can be connected to the IO board according to the actual needs of the customer. See the position of the COM2 interface in the icon number 7 above.

The pin definitions corresponding to different interface types are as follows:

COM1, COM2 pin signal definition

COM1,COM2 Pin signal definition

Mode	DB9 Pin Name								
	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8	Pin9
RS485	DATA +	DATA -							
RS422	TX+	TX-	RX+	RX-					
RS232	DCD#	RXD	TXD	DTR#	GND	DSR#	RTS#	CTS#	RI#

COM3,4,5,6 Pin signal definition

PIN	Signal	note	PIN	COM4	note
1	DCD3_485DN3	COM3	2	DCD4_485DN4	COM4
3	SOUT3		4	SOUT4	
5	SIN3_485DP3		6	SIN4_485DP4	
7	GND		8	GND	
9	SOUT5	COM5	10	SOUT6_CN	COM6
11	SIN5		12	SIN6_CN	
13	GND		14	GND	
15	FP_PWRBTN_N	Remote switch	16	GND	

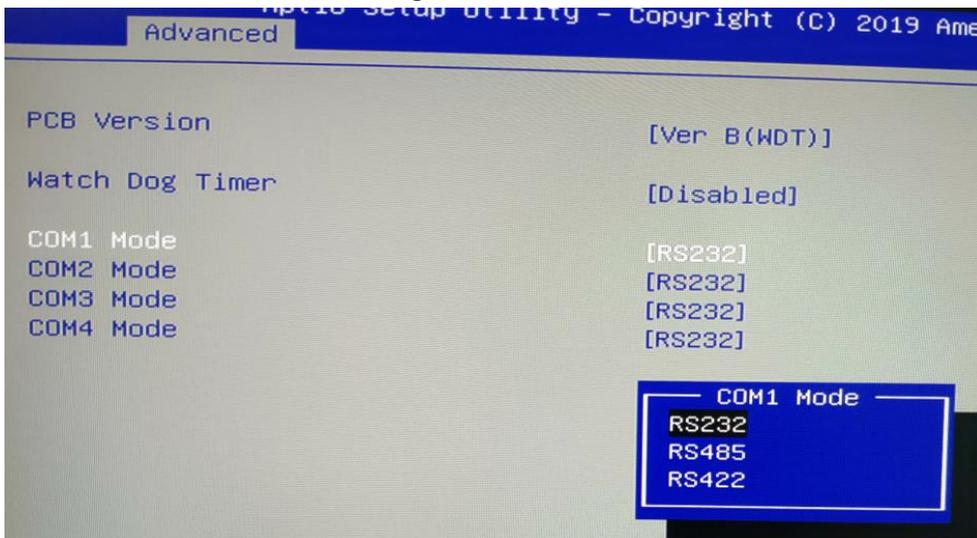


Set the working mode of COM1,2,3,4

Step1

Power on the machine, press the Delete key when booting, enter the BIOS setup interface, and navigate to the following path:

Advanced-SIO MISC Configuration-COM1 MODE select RS232/422/485 option;

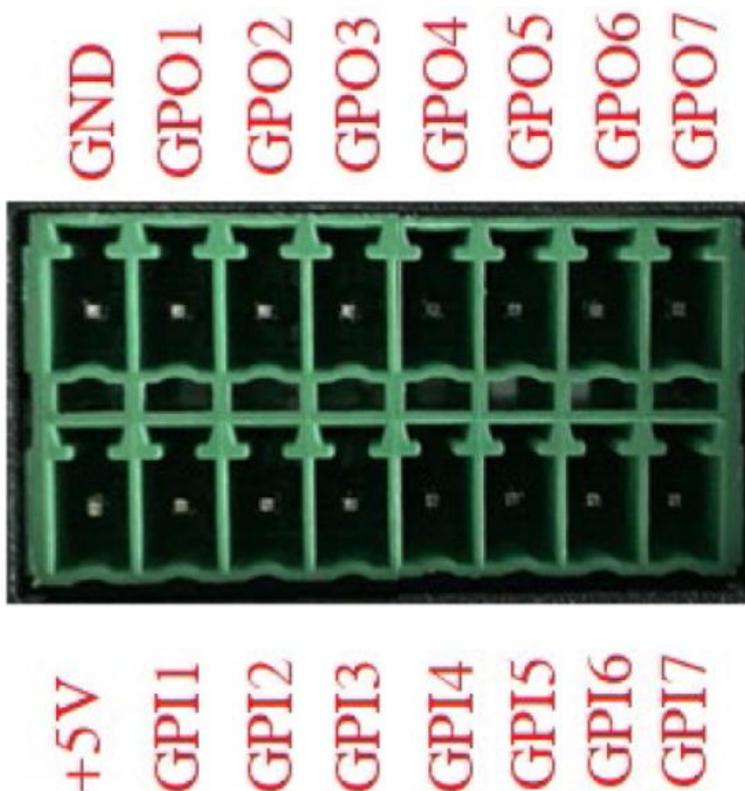


Step2

After setting the BIOS options, press F10 and select [YES] in the pop-up dialog box to save the settings and exit.

3.2 GPIO

COM2 and GPIO1 of the motherboard share the same interface. When the GPIO model is selected. The PIN of GPIO1 is defined as follows



Address allocation, Base Address=0x500h

PIN	Signal	IO address	Initial	Direction	Output driving capability
1	+5V	-	-	-	-
3	GPI1	0xA06.bit0	+5V	Input	
5	GPI2	0xA06.bit1	+5V	Input	
7	GPI3	0xA06.bit2	+5V	Input	
9	GPI4	0xA06.bit3	+5V	Input	
11	GPI5	0xA06.bit4	+5V	Input	
13	GPI6	0xA06.bit5	+5V	Input	
15	GPI7	0xA06.bit6	+5V	Input	
2	GND	-	-	-	-
4	GPO1	0xA07.bit4	0V	Output	35mA
6	GPO2	0xA07.bit5	0V	Output	35mA
8	GPO3	0xA07.bit6	0V	Output	35mA
10	GPO4	0xA07.bit7	0V	Output	35mA
12	GPO5	0xA04.bit6	0V	Output	35mA
14	GPO6	0xA04.bit7	0V	Output	35mA
16	GPO7	0xA03.bit0	0V	Output	35mA

GPIO Port access

Access to the output port:

Use the function `outputb()` to directly output a byte of data to the specified port. To make the corresponding GPO port output low level, write 0 to the corresponding port. For example, the following example is to make GPO1 output low level:

```
TEMP=inportb(0x50c); first read in the content of port 0x50c
TEMP=TEMP&0xfe; Set bit0 of port 0x50c to 0
outputb(0x50c,TEMP); write data to the port
```

To make the corresponding GPO port output high level, write 1 to the corresponding port. For example, the following example is to make GPO1 output high level:

```
TEMP=inportb(0x50c); first read in the content of port 0x50c
TEMP=TEMP|0x01; Set bit0 of port 0x50c to 1
outputb(0x50c,TEMP); write data to the port
```

Access to input port:

Use the function `inportb()` to read a byte from the port, and then check the table above and take the corresponding bit.

4 BIOS Function Introduction

4.1 Introduction to UEFI

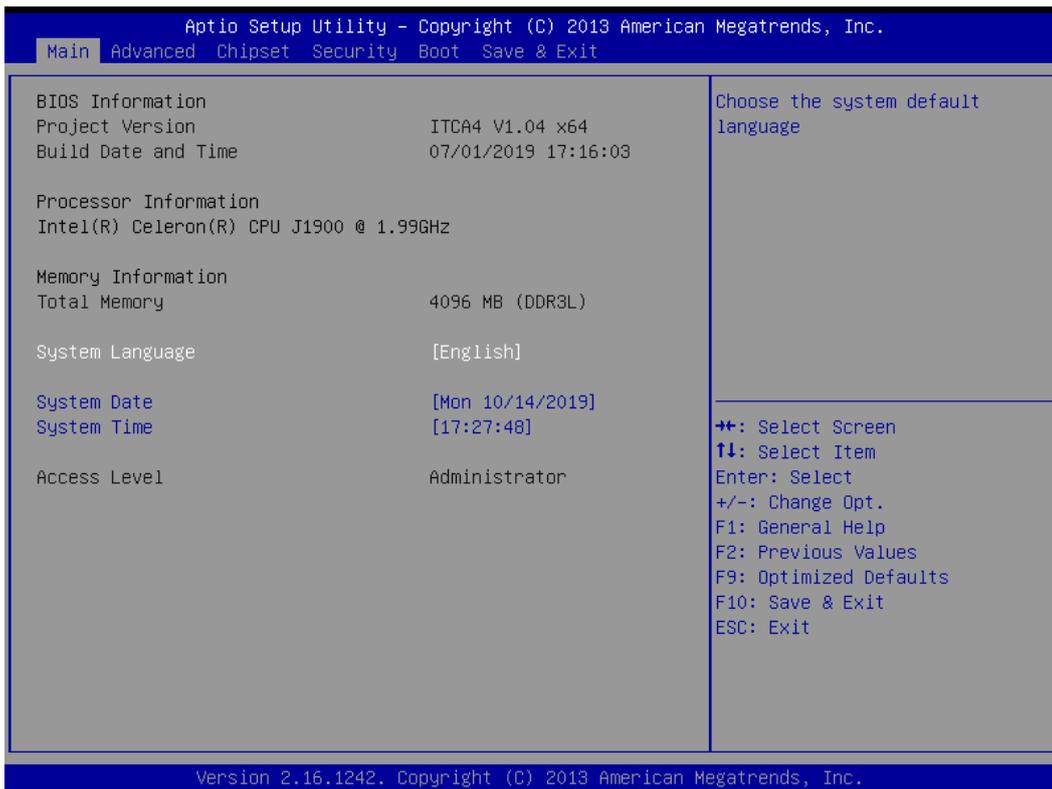
UEFI (Unified Extensible Firmware Interface: Standard Extensible Firmware Interface) is a new generation of computer firmware used to replace the traditional BIOS. UEFI firmware is stored in the flash memory of the motherboard. The main functions include: initializing system hardware, setting the working status of each system component, adjusting the working parameters of each system component, diagnosing the function of each system component and reporting faults, and providing hardware to the upper software system. Operate the control interface, boot the operating system, etc. UEFI provides users with a menu-style man-machine interface, which is convenient for users to configure various system parameter settings, control power management modes, and adjust the resource allocation of system equipment. Correctly setting the parameters of UEFI can make the system work stably and reliably, and at the same time can improve the overall performance of the system. Inappropriate or even wrong UEFI parameter settings will greatly reduce the performance of the system, make the system work unstable, or even fail to work normally.

4.2 UEFI parameter settings

Whenever the system is powered on and turned on normally, you can see the message prompting to enter the UEFI setup program. At this time (invalid at other times), press the key specified by the prompt message (usually the key or <F2> key) to enter the UEFI setup program. All setting values (except date and time) modified by UEFI setting program are saved in the flash memory of the system. Even if the power is cut off or the motherboard battery is unplugged, the content will not be lost; while the date and time are stored in the system's CMOS memory, the CMOS memory is powered by a battery, and its content will not be lost even if the external power supply is cut off, unless the operation of clearing the CMOS content is performed. Notice! The setting of UEFI directly affects the performance of the computer. Setting the wrong parameters will cause damage to the computer, or even failure to boot. Please use the built-in UEFI default values to restore the normal operation of the system. As our company is constantly developing and updating UEFI, its setting interface will be slightly different. The following screen is for your reference, and it may not be exactly the same as the UEFI setting program you are currently using.

4.3 UEFI basic function settings

When the SETUP program is started, you can see the main screen as follows:



4.3.1 Main

System Date

Select this option and use <+> / <-> to set the current date. It is expressed in the format of month/day/year. The reasonable range of each item is: Month/month (1-12), Date/day (01-31), Year/year (up to 2099), Week/week (Mon.~Sun.).

System Time

Select this option and use <+> / <-> to set the current time. It is expressed in the format of hour/minute/second. The reasonable range of each item is: Hour/Hour (00-23), Minute/Minute (00-59), Second/Second (00-59).

PS: The RTC time of the 6, 7, and 8 generation Core Duo will be adjusted according to the OS.

Advanced

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Main **Advanced** Chipset Security Boot Save & Exit

<ul style="list-style-type: none"> ▶ ACPI Settings ▶ Lan PXE Config ▶ SIO MISC Configuration ▶ IT8786 Super IO Configuration ▶ Wakeup Configuration ▶ CPU Configuration ▶ IDE Configuration ▶ Network Stack Configuration ▶ CSM Configuration ▶ USB Configuration 	<p>System ACPI Parameters.</p> <hr/> <p> ⇄: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit </p>
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ACPI Settings

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Advanced

<p>ACPI Settings</p> <p>Enable ACPI Auto Configuration [Disabled]</p> <p>Enable Hibernation [Enabled]</p> <p>ACPI Sleep State [S3 (Suspend to RAM)]</p> <p>Lock Legacy Resources [Disabled]</p>	<p>Enables or Disables BIOS ACPI Auto Configuration.</p> <hr/> <p> ⇄: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit </p>
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Lan PXE Configuration

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Advanced

PXE Boot [Disabled]	Enable or Disable
<pre> ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit </pre>	

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SIO MISC Configuration

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Advanced

Watch Dog Timer [Disabled] COM1 Mode [RS232] COM2 Mode [RS232] COM3 Mode [RS232] COM4 Mode [RS232] GP01 Ouput Value [Low] GP02 Ouput Value [Low] GP03 Ouput Value [Low] GP04 Ouput Value [Low] GP05 Ouput Value [Low] GP06 Ouput Value [Low] GP07 Ouput Value [Low]	Enable or Disable WDT
<pre> ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit </pre>	

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Watch Dog Timer

If this parameter is set to Enable, you can set minutes (seconds).

IT8786 Super IO Configuration

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<p>CPU Configuration</p> <p>▶ Socket 0 CPU Information</p> <p>▶ CPU Thermal Configuration</p> <p>CPU Speed 2001 MHz</p> <p>64-bit Supported</p> <p>Active Processor Cores [All]</p> <p>Limit CPUID Maximum [Disabled]</p> <p>Execute Disable Bit [Enabled]</p> <p>Hardware Prefetcher [Enabled]</p> <p>Adjacent Cache Line Prefetch [Enabled]</p> <p>Intel Virtualization Technology [Enabled]</p> <p>Power Technology [Energy Efficient]</p>	<p>Socket specific CPU Information</p> <hr/> <p>↔: Select Screen</p> <p>↑↓: Select Item</p> <p>Enter: Select</p> <p>+/-: Change Opt.</p> <p>F1: General Help</p> <p>F2: Previous Values</p> <p>F9: Optimized Defaults</p> <p>F10: Save & Exit</p> <p>ESC: Exit</p>
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IDE Configuration

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Advanced

<p>IDE Configuration</p> <p>Serial-ATA (SATA) [Enabled]</p> <p>SATA Test Mode [Disabled]</p> <p>SATA Speed Support [Gen2]</p> <p>SATA ODD Port [No ODD]</p> <p>SATA Mode [AHCI Mode]</p> <p>Serial-ATA Port 0 [Enabled]</p> <p>SATA Port0 HotPlug [Disabled]</p> <p>Serial-ATA Port 1 [Enabled]</p> <p>SATA Port1 HotPlug [Disabled]</p> <p>SATA Port0</p> <p> Kintigo SSD 12 (128.0GB)</p> <p>SATA Port1</p> <p> Not Present</p>	<p>Enable / Disable Serial ATA</p> <hr/> <p>↔: Select Screen</p> <p>↑↓: Select Item</p> <p>Enter: Select</p> <p>+/-: Change Opt.</p> <p>F1: General Help</p> <p>F2: Previous Values</p> <p>F9: Optimized Defaults</p> <p>F10: Save & Exit</p> <p>ESC: Exit</p>
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Network Stack Configuration

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Advanced

<p>Network Stack [Enabled] Ipv4 PXE Support [Enabled] Ipv6 PXE Support [Enabled] PXE boot wait time 0</p>	<p>Enable/Disable UEFI Network Stack</p> <hr/> <p> ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit </p>
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CSM Configuration

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Advanced

<p>Compatibility Support Module Configuration</p> <p>CSM Support [Enabled] CSM16 Module Version 07.74 GateA20 Active [Upon Request] Option ROM Messages [Force BIOS] INT19 Trap Response [Immediate]</p> <p>Boot option filter [UEFI and Legacy]</p> <p>Option ROM execution</p> <p>Storage [UEFI] Video [Legacy] Other PCI devices [Legacy]</p>	<p>Enable/Disable CSM Support.</p> <hr/> <p> ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit </p>
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USB Configuration

Advanced

USB Configuration		Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.
USB Module Version	8.11.01	
USB Devices: 1 Drive, 1 Keyboard, 2 Mice, 1 Point, 3 Hubs		
Legacy USB Support	[Enabled]	
XHCI Hand-off	[Enabled]	
EHCI Hand-off	[Disabled]	
USB Mass Storage Driver Support	[Enabled]	
USB hardware delays and time-outs:		
USB transfer time-out	[20 sec]	+←: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Device reset time-out	[20 sec]	
Device power-up delay	[Auto]	
Mass Storage Devices:		
Generic Flash Disk 8.07	[Auto]	

4.3.2 Chipset

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Main Advanced **Chipset** Security Boot Save & Exit

▶ North Bridge
▶ South Bridge

North Bridge Parameters

⇧⇩: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Opt.
 F1: General Help
 F2: Previous Values
 F9: Optimized Defaults
 F10: Save & Exit
 ESC: Exit

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North Bridge

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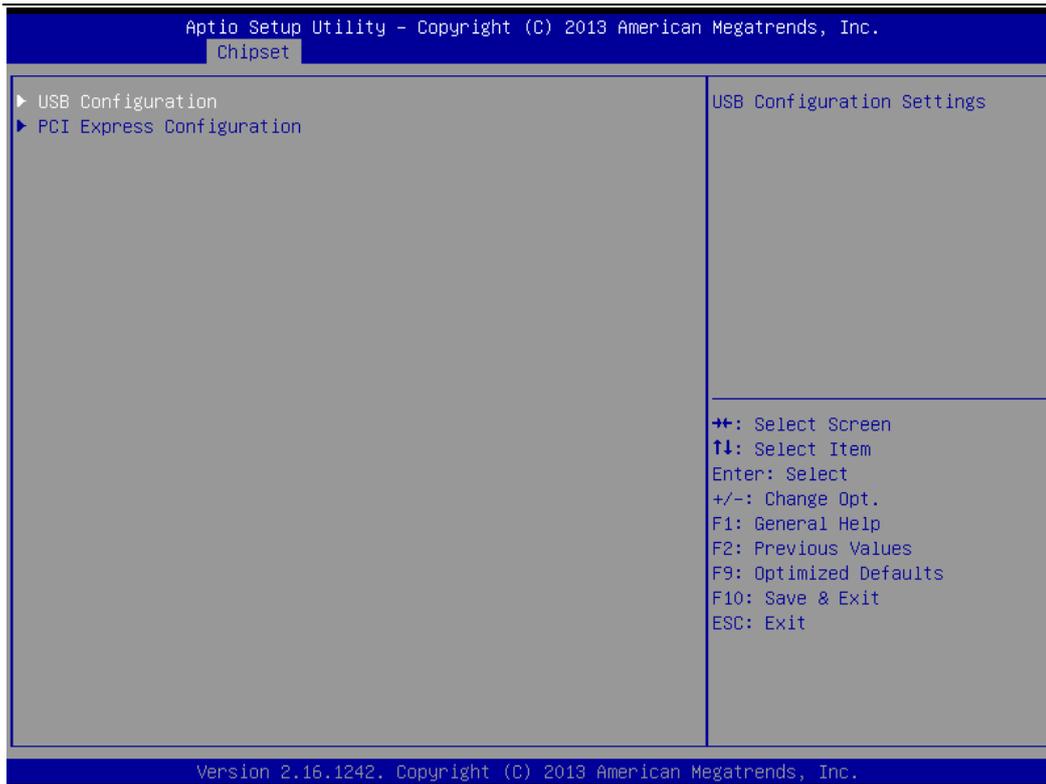
Chipset

LCD Control		Select the Video Device which will be activated during POST. This has no effect if external graphics present. Secondary boot display selection will appear based on your selection. VGA modes will be supported only on primary display.
Primary IGFX Boot Display	[VBIOS Default]	
Active LFP	[LVDS]	
LCD Panel Type	[1024x768]	
Backlight Control	[PWM Normal]	
LVDS Channel Select	[Single Channel]	
LVDS Mode	[VESA]	
Brightness Mode Setting	[External]	
Panel Color Depth	[24 Bit]	

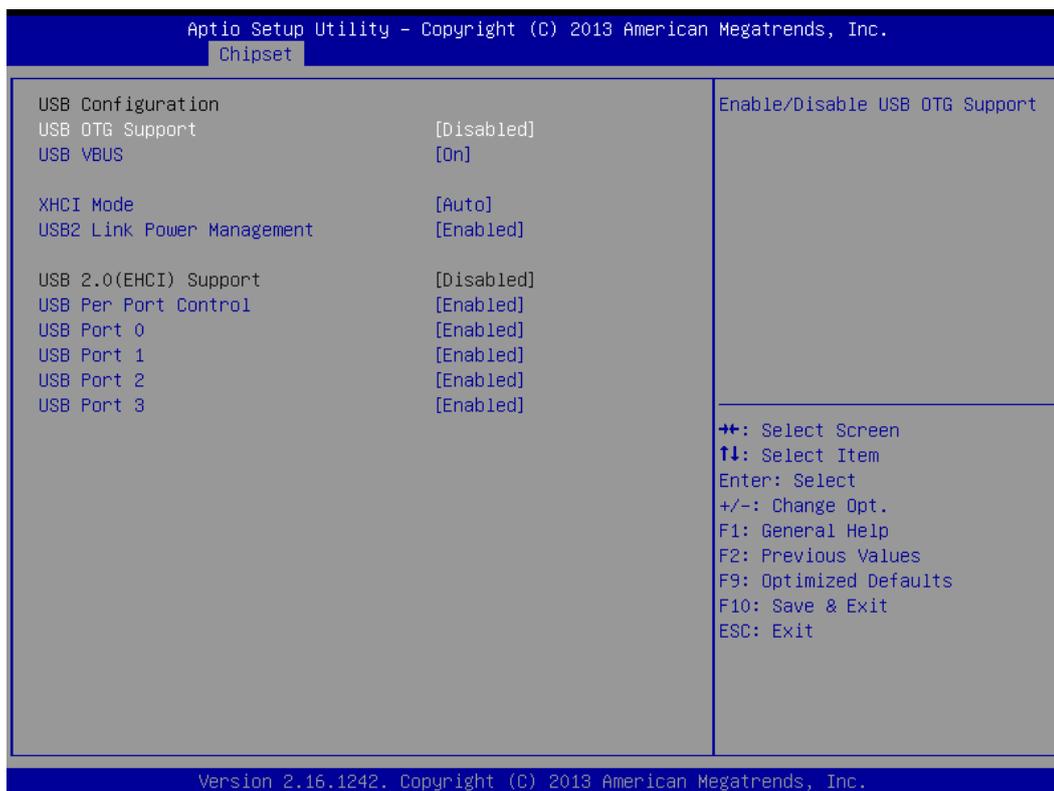
⇧⇩: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Opt.
 F1: General Help
 F2: Previous Values
 F9: Optimized Defaults
 F10: Save & Exit
 ESC: Exit

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South Bridge



USB Configuration

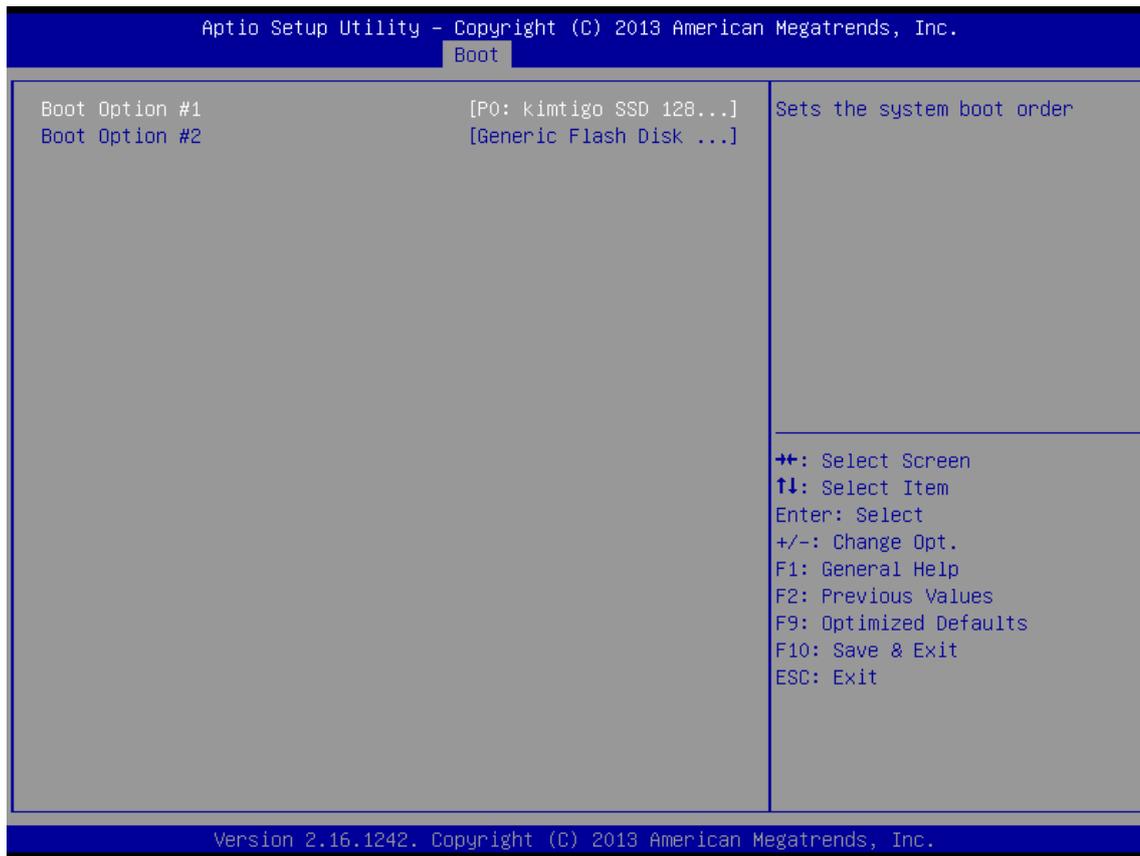


PCI Express Configuration

Chipset

PCI Express Configuration		▲ Enable or Disable the PCI Express Port 0 in the Chipset.
PCI Express Port 0	[Enabled]	
Hot Plug	[Enabled]	
Speed	[Auto]	
Extra Bus Reserved	1	
Reseved Memory	10	
Reseved Memory Alignment	1	
Prefetchable Memory	10	
Prefetchable Memory Alignment	1	
Reserved I/O	4	
PCI Express Port 1		
Hot Plug	[Enabled]	
Speed	[Auto]	
Extra Bus Reserved	0	++: Select Screen
Reseved Memory	10	↑↓: Select Item
Reseved Memory Alignment	1	Enter: Select
Prefetchable Memory	10	+/-: Change Opt.
Prefetchable Memory Alignment	1	F1: General Help
Reserved I/O	4	F2: Previous Values
		F9: Optimized Defaults
		F10: Save & Exit
		ESC: Exit
PCI Express Port 2		
Hot Plug	[Enabled]	
Speed	[Gen 1]	
Extra Bus Reserved	0	

4.3.3 BOOT



Save Changes and Reset

This is used to save the changes and restart (F10).

Discard Changes and Reset

This is used to discard the changes and restart.