MiTAC Panel PC System P210-11KS Product Guide

Front View



Rear View



Bottom View



Mechanical Dimension

P210-11KS dimension: 508.3mm x 308.04mm x 83mm





Suggest cut out dimension: 497mm x 297mm

Product Specifications

	DISPLAY TYPE	21.5" TFT-LCD
	MAX. RESOLUTION	1920 x 1080
	MAX. COLORS	16.7M (8 bit / color)
LCD	LUMINANCE (cd/m2)	250
	VIEWING ANGLE (H/V)	170° / 160°
	LED BACKLIGHT LIFETIME (hrs)	30,000
	HIGH BRIGHTNESS	Option
TOUCH SCREEN	ТҮРЕ	Р-САР
IOUCH SCREEN	TOUCH SCREEN	True-flat 10 points

	AR/AG	Option
	PROCESSOR	7th Gen Intel® Kaby Lake-U i3-7100U(Dual Core, 3MB Cache, 2.40 GHz) / option: 7th Gen Kaby Lake celeron 3965U / i5- 7300U / i7-7600U / option: 6th Gen Skylake celeron 3955U / i3- 6100U / i5-6300U / i7-6600U
	CHIPSET	Intel® SoC Integrated
	SYSTEM MEMORY	DDR4 2133MHz / 2 x 260-pin SO-DIMM / Max. 32GB (Non- ECC)
	ETHERNET	Intel® I219-LM Giga LAN + Intel® I211-AT Giga LAN
SYSTEM	I/O PORT	1 x 3-pin Phoenix type terminal block DC input / 2 x RJ45 / 1 x Audio Jack (combo Line-out + Mic-in) / 1 x 8bit GPIO terminal block / 4 x RS232 / 1 x DisplayPort 1.2 / 1 x 2-pin remote power on/off / 4 x USB 3.0 / 1 x HDMI 1.4
	EXPANSION SLOT	Wireless: M.2 2230 E key (PCIe, USB)
	STORAGE	1 x SATA 2.5" HDD / SSD bay
	STEREO SPEAKER	2 x 2W
	OS SUPPORT	Windows® 10 enterprise 1703
	WATCHDOG TIMER	1~255 steps by software program
POWER	POWER INPUT	DC-in 8~24V
REQUIREMENT	POWER ADAPTER	AC to DC / DC19V / 3.4A / 65W adapter
	MOUNTING	TBD
MECHANICAL	DIMENSIONS (W X D X H)	TBD
	WEIGHT	TBD
	OPERATING TEMPERATURE	0 ~ 50°C (32 ~ 122°F)
ENVIKONMENTAL	STORAGE TEMPERATURE	-20 ~ 60°C (-4 ~ 140°F)

STORAGE HUMIDITY	10% ~ 90% @40°C non-condensing
VIBRATION RESISTANCE	Operating Random vibration Test 5-500Hz, 0.3 Grms@with HDD / 2Grms @with SSD, follow IEC 60068-2-64
SHOCK RESISTANCE	Operating 10 G peak acceleration (11 ms duration) / follow IEC 60068-2-27
EMC	CE / FCC Class B
FRONT PANEL PROTECTION	IP65 Compliant

Quick Installation Guide





Install SODIMMs





(Torque 4.5 +/-0.5 Kgf-cm)



Install WIFI card and connect the antennas. (option)

(Torque 4.5 +/-0.5 Kgf-cm)



Connect LVDS cable, backlight cable and TP cable before secure the rear cover



[Note] need manually install drivers

Please check the latest drivers on MiTAC official website

http://www.mitacmct.com/IndustrialPanelPC=P210-11KS=P210-11KS=downloads=EN

MITAC Embedded System P210-10AI BIOS Specifiction

MAIN PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit	
BIOS	Information	l		-		Item help
BIOS	Vender		America	an Megatr	ends	
Core	Version		5.12			
Comp	oliancy		UEFI 2.	6; PI 1.4		
BIOS	Version		D7760A	01		
Build	Date		04/21/20	17		
ME F	W Version		11.8.50.3	3399		
Proce	ssor Informa	ition				
Intel(R) CORE(T	M) i5-7300U	CPU @ 2.0	60GHz		
Memo	ory Informat	ion				
Total	Memory		32768 M	IB		
Memo	ory Frequen	сy	2133 MI	Hz		→←: Select Screen
						↑↓: Select Item
SATA	Devices					Enter: Select
SATA	.1		Empty			+/- : Change Opt.
MSA	ГА		Empty			F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
Syster	n Date		[Www n	nm/dd/yyy	y]	F4: Save & Reset
Syster	n Time		[hh:mm:	ss]		ESC: Exit

Field Name	BIOS Vender
Default Value	AMI Megatrends
Comment	This field is not selectable. There is no help text associated with it.
Field Name	Core Version
Default Value	5.12
Comment	This field is not selectable. There is no help text associated with it.
Field Name	Compliancy
Default Value	UEFI 2.6 ; PI 1.4
Comment	This field is not selectable. There is no help text associated with it.
Field Name	BIOS Version

Field Name	BIOS version
Default Value	Display the version of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Build Date

Default Value	Display build date of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME FW Version
Value	ME Firmware Version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Processor Information
Value	Display the installed CPU brand.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Total Memory
Value	Display the installed memory size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Memory Frequency
Value	Display the installed memory frequency.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SATA1
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	MSATA
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	System Date
Default Value	[Www mm/dd/yyyy]
Possible Value	Www:Mon/Tue/Wed/Thu/Fri/Sat/Sun
	mm : 1-12
	dd : 1-31
	уууу : 1998-9999
Help	Set the Date. Use Tab to switch between Date elements.

Field Name	System Time
Default Value	[hh :mm :ss]
Possible Value	hh : 0-23
	mm : 0-59
	ss : 0-59
Help	Set the Time. Use Tab to switch between Time elements.

ADVANCED PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit	
► CPU	Configuratio	n				Item heln
► Trus	ted Computin	g				
► ACF	PI Settings					
► SMA	ART Settings					
► Supe	er IO Configu	ration				
Hard	lware Monitor	•				→←: Select Screen
►S5 R	TC Wake Set	tings				↑↓: Select Item
Netv	vork Stack Co	nfiguration	L			Enter: Select
						+/- : Change Opt
				F1: General Help		
					F2: Previous Values	
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
	V	Version 2.18.	1264. Copyrigh	t (C) 2017	American Megatren	ds, Inc.

Field Name	CPU Configuration
Help	CPU Configuration Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Trusted Computing
Help	Trusted Computing Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	ACPI Settings
Help	System ACPI Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	SMART Settings
Help	System SMART Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Super IO Configuration
Help	System Super IO Chip Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Hardware Monitor
Help	Monitor hardware status
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	S5 RTC Wake Settings
Help	Enable system to wake from S5 using RTC alarm.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Network Stack Configuration
Help	Network Stack Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Main	Advanced	Chipset	Security	Boot	Save & Exit	
CPU	Configuration	l				Item help
Туре				Intel(R)	Core(TM) CPU	
				i5-7300U	@ 2.60 GHz	
ID				0x806E9		
Speed	l			2700 MH	Z	
L1 Da	ata Cache			32 KB x 2		
L1 Co	ode Cache			32 KB x 2	2	
L2 Ca	ache			256 KB x	2	
L3 Ca	ache			3MB		
L4 Ca	ache			N/A		
VMX				Supporte	d	
SMX/	TXT			Supporte	d	
						→←: Select Screen
Hardv	vare Prefetcher	•		[Enabled]		↑↓: Select Item
Adjac	ent Cache Line	e Prefetch		[Enabled]		Enter: Select
Active	e Processor Co	res		[All]		+/- : Change Opt
Hyper	-Threading			[Enabled]		F1: General Help
Intel 7	Frusted Execut	ion Technol	ogy	[Disabled]]	F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Туре
Default Value	[Intel CPU Brand String]
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ID
Default Value	Displays CPU Signature
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Speed
Default Value	Displays the CPU Speed
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Data Cache
Default Value	L1 Data Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Code Cache

Default Value	L1 Code Cache Size			
Comment	This field is not selectable. There is no help text associated with it.			
Field Name	L2 Cache			
Default Value	L2 Cache Size			
Comment	This field is not selectable. There is no help text associated with it.			
	· ·			
Field Name	L3 Cache			
Default Value	L3 Cache Size			
Comment	This field is not selectable. There is no help text associated with it.			
Field Name	L4 Cache			
Default Value	L4 Cache Size			
Comment	This field is not selectable. There is no help text associated with it.			
Field Name	VMX			
Default Value	VMX Supported or Not			
Comment	This field is not selectable. There is no help text associated with it.			
Field Name	SMX/TXT			
Default Value	SMX/TXT Supported or Not			
Comment	This field is not selectable. There is no help text associated with it.			
T: 11N				
Field Name	Hardware Pretetcher			
Default Value				
Possible Value	Enabled			
Halp	To turn on/off the MLC streamer prefetcher			
neip	To turn on/on the MLC streamer prefetcher.			
Field Name	Adjacent Cache Line Prefetch			
Default Value	[Enabled]			
Possible Value	Enabled			
	Disabled			
Help	To turn on/off the prefetching of adjacent cache lines.			
1				
Field Name	Active Processor Cores			
Default Value	[All]			
Possible Value	All			
	1			
Help	Number of cores to enable in each processor package.			
Field Name	Hyper-Threading			
Default Value	[Enabled]			
Possible Value	Enabled			
	Disabled			
Help	Enabled for Windows XP and Linux (OS optimized for Hyper-Threading			
	Technology) and Disabled for other OS (OS not optimized for Hyper-			

Field Name	Intel Trusted Execution Technology
Default Value	[Disabled]
Possible Value	Enabled
	Disabled

Help	Enables utilization of additional hardware capabilities provided by Intel
	(R) Trusted Execution Technology.
	Changes require a full power cycle to take effect.

TRUSTED COMPUTING (OPTIONAL)

Main	Advanced	Chipset	Security	Boot	Save & Exit	
TPN	120 Device Fo	ound				Item help
Vene	der : NTC					
Firn	nware Version	n: 1.3				
Secu	rity Device Su	ipport	[Enable]		
Pend	ling operation		[None]		→←: Select Screen
TPM	12.0 UEFI Spe	c Version	[TCG 21		↑↓: Select Item
	1					Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Security Device SUPPORT
Default Value	[Enable]
Possible Value	Enable
	Disable
Help	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.

Field Name	Pending operation
Default Value	[None]
Possible Value	None
	TPM Clear
Help	Schedule an Operation for the Security Device. NOTE: Your Computer
	will reboot during restart in order to change State of Security Device.

Field Name	TPM2.0 UEFI Spec Version
Default Value	[TCG_2]
Possible Value	TCG_1_2
	TCG_2
Help	Select the TCG2 Spec Version Support, TCG_1_2: the Compatible mode for Win8/Win10, TCG_2: Support new TCG2 protocol and event format for Win10 or later.

ACPI SETTINGS

Main	Advanced	Chipset	Security	Boot	Save & Exit	
ACP	I Settings					Item help
Enat	ole ACPI Auto	Configurat	ion [[Disabled]		→←: Select Screen
Enat	ole Hibernation	1	I	[Enabled]		↑↓: Select Item Enter: Select
ACF	PI Sleep State		[[S3 (Suspend	l to RAM)]	+/- : Change Opt F1: General Help
						F2: Previous Values
						F3: Optimized Defaults F4: Save & Reset
						ESC: Exit
	Ve	ersion 2.18.12	64. Copyrig	tht (C) 2017 A	merican Megatr	ends, Inc.

Field Name	Enable ACPI Auto Configuration
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Enables or Disables BIOS ACPI Auto Configuration.

Field Name	Enable Hibernation
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enables or Disables System ability to Hibernate (OS/S4 Sleep State).
	This option may be not effective with some OS.

Field Name	ACPI Sleep State
Default Value	[S3 (Suspend to RAM)]
Possible Value	Suspend Disabled
	S3 (Suspend to RAM)
Help	Select the highest ACPI sleep state the system will enter when the
-	SUSPEND button is pressed.

SMART SETTINGS

Main	Advanced	Chipset	Security	Boot	Save & Exit	
SMA	RT Settings			-		Item help
SMA	DT Solf Test		[D]	abladl		Salaat Saraan
SIVIA	KI Sell Test		נטו	sableuj		→←: Select Screen
						↓: Select Item
						Enter: Select
						+/-: Change Opt
						F1: General Help
						F2: Previous values
						F5: Optimized Defaults
						F4: Save & Keset
						ESC: Exit
	V	ersion 2.18.12	264. Copyright	(C) 2017 A	American Megatro	ends, Inc.

Field Name	SMART Self Test
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Run SMART Self Test on all HDDs during POST.

SUPER IO CONFIGURATION

Main Adva	nced	Chipset	Security	Boot	Save & Exit	
SIO Config	uration	l				Item help
► Serial Port	1 Confi	guration				→←: Select Screen
► Serial Port	2 Confi	guration				↑↓: Select Item
► Serial Port	3 Confi	guration				Enter: Select
Serial Port	4 Confi	guration				+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Serial Port 1 Configuration
Help	Set Parameters of Port 1 (COMA)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name Serial Port 2 Configuration	
--	--

Help	Set Parameters of Port 2 (COMB)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 3 Configuration
Help	Set Parameters of Port 3 (COMC)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 4 Configuration
Help	Set Parameters of Port 4 (COMD)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	Port 1 Conf	iguration	-	-		Item help
Serial P	ort			[Ena	abled]	→←: Select Screen
Device	Settings			IO=	3E8h; IRQ=7;	↑ ↓ : Select Item
						Enter: Select
Change	Settings			[Au	to]	+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM1 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=3E8h; IRQ=7;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F0h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	Port 2 Conf	iguration	-	-		Item help
Serial H	Port			[Ena	abled]	→←: Select Screen
Device	Settings			IO=	2E8h; IRQ=5;	↑ ↓ : Select Item
						Enter: Select
Change	e Settings			[Au	to]	+/- : Change Opt
Mode (Configuration			[3T /	'5R RS232]	F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
		Version 2.18.1	264. Copyright	t (C) 2017 A	American Megatren	ls. Inc.

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM2 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=2E8h; IRQ=7;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F0h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

Field Name	Mode Configuration
Default Value	[3T/5R RS232]
Possible Value	1T/1R RS422
	3T/5R RS232
	1T/1R RS485 TX ENABLE Low Active
	1T/1R RS422 with termination resistor
	1T/1R RS485 with termination resistor TX ENABLE Low Active
	Disabled
Help	Configure serial port as RS232/RS422/RS485.

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	Port 3 Confi	iguration		-		Item help
Serial F	ort			[Enal	bled]	→←: Select Screen
Device	Settings			IO=3	3F8h; IRQ=4;	↑ ↓ : Select Item
						Enter: Select
Change	Settings			[Auto	b]	+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM3 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=3F8h; IRQ=4;
	IO=3F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	Port 4 Conf	iguration	-	-		Item help
Serial P	ort			[Ena	abled]	→←: Select Screen
Device	Settings			IO=	2F8h; IRQ=3;	↑ ↓ : Select Item
						Enter: Select
Change	Settings			[Aut	to]	+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM4 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	10=2F8h; IRQ=3;
	IO=3F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

HARDWARE MONITOR

Main	Advanced	Chipset	Security	Boot	Save & Exit	
PC H	ealth Status					Item help
CPU te	emperature			: XX	°C	→←: Select Screen
CPU V	R temperatu	re		: XX	°C	↑↓: Select Item
DIMM	temperature	2		: XX	°C	Enter: Select
Fan Sp	eed			: xxx	xx RPM	+/- : Change Opt
1V Sta	ndBy			: x.x	xx V	F1: General Help
CPU V	core			: x.x	xx V	F2: Previous Values
System	Memory			: x.x	xx V	F3: Optimized Defaults
+12V S	standBy			: x.x	xx V	F4: Save & Reset
						ESC: Exit
	V	Version 2.18.1	264. Copyright	(C) 2017 .	American Megatr	ends, Inc.

S5 RTC WAKE SETTINGS

Main Advanced C	Chipset Security	Boot	Save & Exit	
Wake system from S	5	[Disab	led]	Item help
Wake up hour		0		
Wake up minute		0		
Wake up second		0		
				→←: Select Screen
				↑↓: Select Item
				Enter: Select
				+/- : Change Opt
				F1: General Help
				F2: Previous Values
				F3: Optimized Defaults
				F4: Save & Reset
				ESC: Exit

Field Name	Wake system from S5
Default Value	[Disabled]
Possible Value	Disabled
	Fixed Time
Help	Enabler or disable System wake on alarm event, Select FixedTime,
	system will wake on the hr::min::sec specified.

Field Name	Wake up hour(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-23
Help	Select 0-23 For example enter 3 for 3am and 15 for 3pm

Field Name	Wake up minute(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-59
Help	0 - 59

Field Name	Wake up second(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0 - 59
Help	0 - 59

NETWORK STACK CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit	
				-		Item help
Netv	vork stack		[Dis	sabled]		
Ipv4	PXE Support		[Dis	sabled]		→←: Select Screen
Іруб	PXE Support		[Dis	sabled]		↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Network stack
Default Value	[Disabled]
Possible Value	Disabled (Restore non-Windows 8 Default)
	Enabled
Help	Enable/Disable UEFI Network stack.

Field Name	Ipv4 PXE Support
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Enable Ipv4 PXE Boot Support. If disabled IPV4 PXE boot option will
	not be created.

Field Name	Ipv6 PXE Support
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Enable Ipv6 PXE Boot Support. If disabled IPV6 PXE boot option will
	not be created.

CHIPSET PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit	
► Syst	em Agent (SA) Configura	tion			Item help
► PCH	I-IO Configura	tion				
						→←: Select Screen
						↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	System Agent (SA) Configuration
Help	System Agent (SA) Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	PCH-IO Configuration
Help	PCH Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

SYSTEM AGENT (SA) CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit	
System	n Agent (SA) (Configurati	ion			Item help
MerGray	nory Configura phics Configur	ation ation				
						→←: Select Screen ↑↓: Select Item
						Enter: Select +/- : Change Opt
						F1: General Help F2: Previous Values
						F3: Optimized Defaults F4: Save & Reset
		Version 2 18 12	264 Convria	ht (C) 20 1	7 American Megatr	ESC: Exit

Field Name	Memory Configuration
Help	Memory Configuration Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Graphics Configuration
Help	Graphics Configuration
Comment	Press Enter when selected to go into the associated Sub-Menu.

Memory Configuration

Main Advanced	Chipset	Boot	Security	Save & Exit	
Memory Configu	ration				Item help
Memory Frequer DIMM#1 DIMM#2	ncy		2133 Mhz 16384 MB 16384 MB	8 (DDR4) 8 (DDR4)	 →←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset
					ESC: Exit

Field Name	Memory Frequency
Help	Memory speed
Comment	This field is not selectable. There is no help text associated with it.
Field Name	DIMM#[1:2]
Halm	Mamony in the DIMM

Help	Memory in the DIMM.
Comment	This field is not selectable. There is no help text associated with it.

Graphics Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Grap	hics Configur	ation	-			Item help
DVM	IT Pre-Allocate	ed		[32M]		→←: Select Screen
DVM	IT Total Gfx M	lem		[256M]		↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	DVMT Pre-Allocated
Default Value	[32M]
Possible Value	32M / 64M / 4M/ 8M/ 12M/ 16M/ 20M/ 24M/ 28M/ (32M/F7)/ 36M/
	40M/ 44M/ 48M/ 52M/ 56M/ 60M
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by
	the Internal Graphics Device.

Field Name	DVMT Total Gfx Mem
Default Value	[256M]
Possible Value	128MB / 256MB / MAX
Help	Select DVMT5.0 Total Graphic Memory size used by the Internal
	Graphics Device.

PCH-IO CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit		
PCH-I	O Configurat	tion				Item help	
► HD Audio Configuration		iration				→←: Select Screen	
Deep	Sx Power Poli	cies	[Disabled]			Enter: Select	
Wake	On LAN			[Enabled]		+/- : Change Opt	
State	After G3			[S5 State]		F1: General Help	
						F2: Previous Values	
						F3: Optimized Defaults	
						F4: Save & Reset	
						ESC: Exit	

Field Name	HD Audio Configuration
Help	HD Audio Subsystem Configuration Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	DeepSx Power Policies
Default Value	[Disabled]
Possible Value	Enabled in S4-S5
	Disabled
Help	configure the DeepSx Mode configuration.

Field Name	Wake On LAN
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enabled/Disabled integrated LAN to wake the system.

Field Name	State After G3
Default Value	[S5 State]
Possible Value	S0 State
	S5 State
Help	Specify what state to go to when power is re-applied after a power
	failure (G3 state).

Main	Advanced	Chipset	Boot	Security	Save & Exit				
HD A	udio Subsyst	Item help							
HD A	udio			[Auto]					
						→←: Select Screen			
						↑↓: Select Item			
						Enter: Select			
						+/- : Change Opt			
						F1: General Help			
						F2: Previous Values			
						F3: Optimized Defaults			
						F4: Save & Reset			
						ESC: Exit			
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Field Name HD Audio Value [Auto] Possible Value Auto / Enable / Disable Help Control Detection of HD-Audio device. Disabled = HDA will be unconditionally disabled Enable = HDA will be unconditionally enabled Auto = HDA will be enabled if present, disabled otherwise.

SECURITY PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit		
Pass	word Descri	ption				Itom	holp
						Item	neip
If O	nly the Admir	nistrator's pas	word is set				
пO	iny the Autim	instrator s pas	swolu is set,				
then	this only lim	its access to S	letup and is				
	•						
only	asked for wh	en entering S	etup.				
10.03	XXX X X X X X		1 .1 .				
If O	NLY the User	's password 1	s set, then the	IS			
is a	nower on nase	sword and mi	ist he entered	to			
15 u	power on pus		ist de entered				
boot	or enter Setu	p. In Setup th	e User will				
have	Administrato	or rights					
The	nassword len	oth must he					
in th	e following r	ange:					
Min	imum length			3			
Max	imum length			20		→←: Select Sc	reen
	-					↑↓: Select Item	
Adn	ninistrator Pas	ssword				Enter: Select	
User	Password					+/- : Change O	pt
						F1: General H	elp
HDI	O Security Co	onfiguration:				F2: Previous V	alues
HDI	O Security dri	ve				F3: Optimized	Defaults
						F4: Save & Re	set
► Se	ecure Boot					ESC: Exit	
► Se	ecure Flash U	pdate					

Field Name	Administrator Password
Help	Set Administrator Password

Field Name	User Password
Help	Set User Password.

Field Name	HDD Security drive
Help	HDD Security Configuration for selected drive

Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Secure Boot
Help	Customizable Secure Boot settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Secure Flash Update
Help	Secure Flash Update support
Comment	Press Enter when selected to go into the associated Sub-Menu.

HDD SECURITY

Main	Advanced	Chipset	Security	Boot	Save & Ex	xit		
HDD	Password De	scription :					Item help	
							P	
Allow	s Access to Se	et, Modify and	d Clear					
HardI	Disk User and	Master Passw	vords.					
User	Password need	l to be installe	ed for					
Enabl	ing Security. I	Master Passwo	ord can					
be Mo	odified only w	hen successfu	Illy unlocked					
with I	Master Passwo	ord in POST.						
If the	'Set HDD Pas	sword' option	is grayed ou	ıt,				
do po	wer cycle to e	nable the opti	on again.					
ו חחנו		CONFICUE	TION					
ועמוו	TASS WORD	CONFIGURA	ATION.				→←· Select Screen	
Securi	ty Supported	:	Yes	5			↑↓: Select Item	
Securi	ty Enabled	:	No				Enter: Select	
Securi	ty Locked	:	No				+/- : Change Opt	
Securi	ty Frozen	:	No				F1: General Help	
HDD	User Pwd Stat	us :	NO	T INSTA	LLED		F2: Previous Values	
HDD]	Master Pwd St	tatus :	INS	STALLE	D		F3: Optimized Defaults	
							F4: Save & Reset	
Set Us	er Password						ESC: Exit	

Field Name	Set User Password
Help	Set HDD User Password. *** Advisable to Power Cycle System after Setting Hard
	Disk Passwords ***.Discard or Save changes option in setup does not have any impac
	on HDD when password is set or removed. If the 'Set HDD User Password' option is
	grayed out, do power cycle to enable the option again

SECURE BOOT

Main Advanced	Chipset	Security	Boot	Save & Exit	
System Mode		Set	up		Item help
Vender keys		Not	t Modifie	d	
Secure Boot Enable		[Di	sabled]		→←: Select Screen
		Not	t Active		↑↓: Select Item
					Enter: Select
Secure Boot Mode		[Cu	istom]		+/- : Change Opt
					F1: General Help
► Restore Factory Ke	eys				F2: Previous Values
► Reset To Setup Mo	ode				F3: Optimized Defaults
					F4: Save & Reset
Key Management					ESC: Exit

Field Name	Secure Boot Enable
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Secure Boot activated when Platform Key(PK) is enrolled, System mode is
	User/Deployed, and CSM function is disabled

Field Name	Secure Boot Mode
Default Value	[Custom]
Possible Value	Standard
	Custom
Help	Customizable Secure Boot mode: In Custom mode Secure Boot Policy variables can b configured by a physically present user without full authentication

Field Name	Key Management
Help	Enables expert users to modify Secure Boot Policy variables without full
	authentication
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Restore Factory Keys
Help	Force System to User Mode. Configure NVRAM to contain OEM-defined factory
	default Secure Boot keys

Field Name	Reset to Setup Mode
Help	Delete NVRAM content of all UEFI Secure Boot key databases

Key Management

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Fact	ory Key Provi	ision		[D	isabled]	Item help
 Res Res Exp Enr Dev 	 Restore Factory Keys Reset To Setup Mode Export Secure Boot variables Enroll Efi Image Device Guard ready 					
► Ren	nove 'UEFI C	A' from DB				→←: Select Screen
► Res	tore DB defau	ılts				↑↓: Select Item
						Enter: Select
Secure	e Boot variabl	e S	Size K	ley#	Key Source	+/- : Change Opt.
► Pla	tform Key(Pk	K) () 0		No Key	F1: General Help
► Ke	y Exchange K	tey 0) 0		No Key	F2: Previous Values
► Au	► Authorized Signatures 0) 0		No Key	F3: Optimized Defaults
For	rbidden Signa	tures () 0		No Key	F4: Save & Reset
► Au	thorized Time	Stamps 0) 0		No Key	ESC: Exit
► Osl	Recovery Sign	natures 0) 0		No Key	

Field Name	Factory Key Provision
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Provision factory default keys on next re-boot only when System in Setup Mode

Field Name	Restore Factory Keys
Help	Force System to User Mode. Configure NVRAM to contain OEM-defined factory default Secure Boot keys

Field Name	Reset to Setup Mode
Help	Delete NVRAM content of all UEFI Secure Boot key databases

Field Name	Export Secure Boot variables
Help	Copy NVRAM content of Secure Boot variables to files in a root folder on a file
	system device

Field Name	Enroll Efi Image
Help	Allow the image to run in Secure Boot mode. Enroll SHA256 Hash certificate of a PE
	image into Authorized Signature Database (db)

Field Name	Remove 'UEFI CA' from DB

Help	Device Guard ready system must not list 'Microsoft UEFI CA' Certificate in
	Authorized Signature database (db)

Field Name	Remove DB defaults
Help	Restore DB variable to factory defaults

Field Name	Platform Key (PK)
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate in:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER encoded)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHA256,384,512
	2. Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu "Key Management".

Field Name	Key Exchange Key
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate in:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER encoded)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHA256,384,512
	2. Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Authorized Signature
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate in:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER encoded)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHA256,384,512
	2. Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Forbidden Signature
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate in:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER encoded)
	c)EFI_CERT_RSA2048 (bin)

	d)EFI_CERT_SHA256,384,512
	2. Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Authorized TimeStamps
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate in:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER encoded)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHA256,384,512
	2. Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	OsRecovery Signatures
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate in:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER encoded)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHA256,384,512
	2. Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

SECURE FLASH UPDATE

Main	Advanced	Chipset	Security	Boot	Save & Exit	
► Path	n for ROM Im	age				Item help
Notice	:					
ROM	Image must ir	the root fold	er of storage	device.		→←: Select Screen
File na	ame must mate	ch with currer	nt BIOS proje	ect.		↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Path for ROM Image
Help	Enter the path to the Secure flash option

BOOT PAGE

Main Advanced	Chipset	Security	Boot	Save & Exit	
Boot Configuration	on				Item heln
Setup Prompt Time	eout		1		
Bootup NumLock	State		[On]		
Boot Mode Select			[UEFI]		
FIXED BOOT O	RDER Prior	rities			→←: Select Screen
Boot Option #1			[USB]	Floppy]	↑↓: Select Item
Boot Option #2			[USB (CD/DVD]	Enter: Select
Boot Option #3			[Hard]	Disk]	+/- : Change Opt.
Boot Option #4			[USB]	Key]	F1: General Help
Boot Option #5			[USB]	Hard Disk]	F2: Previous Values
Boot Option #6			[USB]	Lan]	F3: Optimized Defaults
Boot Option #7			[Netwo	ork]	F4: Save & Reset
					ESC: Exit
► (UEFI) USB Flopp	y Drive BBS P	riorities			
► (UEFI) USB CD/D	VD Drive BBS	Priorities			
► (UEFI) Hard Disk l	Drive BBS Pric	orities			
► (UEFI) USB Key D	Drive BBS Prior	rities			
► (UEFI) USB Hard	Disk Drive BB	S Priorities			
► (UEFI) USB Lan D	Prive BBS Prior	ities			
► (UEFI) Network D	rive BBS Priori	ties			
	X7 • A 10 1			• 34 4	1 7

Field Name	Setup Prompt Timeout
Default Value	1
Possible Value	1~65535
Help	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Field Name	Bootup NumLock State
Default Value	[On]
Possible Value	On
	Off
Help	Select the keyboard NumLock state

Field Name	Boot Mode Select
Default Value	[UEFI]
Possible Value	LEGACY (Support Skylake series for Win7)
	UEFI
Help	Select boot mode LEGACY/UEFI

Field Name	Boot Option #1
Default Value	[USB Floppy]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy,
	USB Lan, Network
Help	Sets the system boot order

Field Name	Boot Option #2
Default Value	[USB CD/DVD]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy,
	USB Lan, Network
Help	Sets the system boot order

Field Name	Boot Option #3
Default Value	[Hard Disk]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy, USB Lan Network
Holp	Sats the system hoot order
нер	Sets the system boot order

Field Name	Boot Option #4
Default Value	[USB Key]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy,
	USB Lan, Network
Help	Sets the system boot order

Field Name	Boot Option #5
Default Value	[USB Hard Disk]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy,
	USB Lan, Network
Help	Sets the system boot order

Field Name	Boot Option #6
Default Value	[USB Lan]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy,
	USB Lan, Network
Help	Sets the system boot order

Field Name	Boot Option #7
Default Value	[Network]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy,
	USB Lan, Network
Help	Sets the system boot order

Field Name	(UEFI) USB Floppy Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available USB Floppy Drives
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) USB CD/DVD ROM Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available USB
	CDROM/DVD Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) USB Hard Disk Drive BBS Priorities

Help	Specifies the Boot Device Priority sequence from available USB Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) USB KEY Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available USB Key
	Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) Hard Disk Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available Hard Disk
	Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) NETWORK Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available NETWORK
	Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

(LIST BOOT DEVICE TYPE) DRIVE BBS PRIORITIES

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Boo	t Option #1		[Boot	t Device N	Name 1]	Item help
Boo	t Option #2		[Boot	t Device N	Name 2]	
						→←: Select Screen
						↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Boot Option #1
Default Value	
Possible Value	Boot Device Name 1 of this type
Help	Sets the system boot order

Field Name	Boot Option #2
Default Value	
Possible Value	Boot Device Name 2 of this type
Help	Sets the system boot order

SAVE & EXIT PAGE

Main Advanced	Chipset	Security	Boot	Save & Exit	
Save Options					Item heln
					item neip
Discard Changes a	nd Exit				
Save Changes and	Reset				
Discard Changes a	nd Reset				
Restore Defaults					
					→←: Select Screen
					↑↓: Select Item
					Enter: Select
					+/- : Change Opt
					F1: General Help
					F2: Previous Values
					F3: Optimized Defaults
					F4: Save & Reset

Field Name	Discard Changes and Exit
Help	Exit system setup with without saving any changes.

Field Name	Save Changes and Reset
Help	Reset the system after saving the changes.

Field Name	Discard Changes and Rest
Help	Reset system setup without saving any changes.

Field Name	Restore Defaults
Help	Restore/Load Legacy Default values for all the setup options.

<u>RECOVERY PAGE</u> (ACTIVE FOR SECURE FLASH UPDATE ONLY)

Main	Advanced	Chipset	Security	Boot	Save & Exit	Recovery
Pleas	e select block	you want to	update			Item heln
						item nerp
Reset	NVRAM			[Disabled]]	
	1.1.0					
► Pro	ocess with flas	sh update				
						Salaat Samaan
						$\rightarrow \leftarrow$: Select Screen
						Select Item
						+/- : Change Ont
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Reset NVRAM
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Set this option to reset NVRAM to default values

Field Name	Process with flash update
Help	Select this to start flash update