





i3-6100U	i5-6200U	i7-6500U
2.3GHz	2.3~ 2.8G H z	2.5~3.1GHz
2	2	2
6	6	6
1	1	1
1	1	1
1	1	1
8	8	8
/	/	/
/	/	/



1			4
2			5
3			6
K-U6	57TK		2
4			7
	4.1		7
	4.2	10	7
	4.3		7
5			9
	5.1		9
	5.2		10
	5.3		12
6 Bl	OS		15
	6.1		15
	6.2 CSTIPC		16
	6.3		21



1. 2. -20 <= <=70 .95%RH . 3 4. 5. 9~19V 6. . ,



K-U67TK Intel Skylake ULT				Intel Core i3-6100U/i5-6200U					
		i3/i5/	′i7			146*102mm	Ì	3.5	
	1	DDR4 S	SO-DIMM					16GB	
VGA.HDMI.	24	LVDS		4K					
	Line-out	MIC	2W			1	SATA	43.0	
1 mSATA		Ir	ntel		1	Mini-P	CIE		1
SIM		WIFI/30	6/4G	8	USB	4	Ļ	USB3.0	6
COM	т	TL/RS23	2/RS485	5V/	/12V		LPC		
1	PS2	18	GPIO			9V~19V			
					LI	ED			25W

Intel Skylake ULT HDMI+VGA+LVDS 4K IO 2*LAN 6*COM 8*USB 8*GPIO 3.5





	Intel [®] Core i3-6100U/i5-6200U
	DDR4-2133MT/s 16GB
Bios	SPI AMI EFI bios
	1*VGA
	1*HDMI 1.4
	1* 24bit LVDS
	2*RJ45 Intel I211AT
	1*line-out
	1*MIC
	1*SPK 2W/4
ςατα	1* SATA3.0
3414	1*mSATA
СОМ	6* RS232
	4*USB3.0 4*USB2.0
	1*PS/2
	8*GPIO
	1*LPC
	1* Mini-PCIE WIFI/4G
	DC-Jack/2 pin 9~19V
	146*102mm 6layer
	WIN7/WIN8/WIN10
	Unix/Linux
	-20~+70
	5~95%RH

i a G











1PIN













MIC	MIC
H_OUT	Line-out
F_AUDIO	H-OUT
SPK	Wafer2.0
USB1	USB3.0 Port
LAN2	RJ45 2
LAN1	RJ45 1
USB2	USB3.0 Port
JUSB1	USB2.0
JUSB2	USB2.0
USB_PWR	USB3.0 Port
HDMI	HDMI
JVGA	VGA
DC_IN	DC2.5
PWR_IN	2PIN DC-IN
JME	ME
JCMOS	CMOS
SYS_FAN	
PWR_SW	
RSET	
LED	
LVDS	24 LVDS Co-lay eDP
IVCN	LVDS Inverter
JLV	LVDS 12V/5V/3.3V
F_PANEL	/ .
AT_ATX	
SATA_PWR	1*4pin Wafer2.0 SATA
SATA1	SATA3.0
JC21	2 9PIN 5V/12V
JC31	3 9PIN 5V/12V
JC42	4 232/485
JC52	5 232/485
JC64	
JC65	6 IIL/232
J485	4. 5 485
JCOM4-6	1 3 4.5.6
ICOM1	
1001411	9 PIN RS232 1
JCOM2	9 PIN RS232 1 9 PIN RS232 2



PS2	PS/2
GP	8
BAT	RTC 3.3V

JME	1-2P	
JCMOS	1-2P	CMOS



1 HDD LED+ 2 PWR LED+

6-8





1	GND	2	5V	
3				-
5	3.3V	6	LPC_LAD0	-
7	LPC_SERIRQ	8	LPC_LAD1	-
9	H_RCIN#	10	LPC_LAD2	-
11	BUF_PLT_RST	12	LPC_LAD3	-
13	LPC_CLK	14	LPC_LFRAME#	-
1	3.3V	2	JC2_IN	1-2 3.3V
3	5V	4	JC2_IN	3-4 5V
5	12V	6	JC2_IN	5-6 12V
1	12V			
2	GND			
3	BKLT_ON			
4	BKLT_PWM			
5	5V			
1	VCC	2	VCC	
3	3.3v	4	GND	
5		6		
7	GND	8	GND	
9	LVDS1_TX0-	10	LVDS1_TX2-	
11	LVDS1_TX0+	12	LVDS1_TX2+	
13	LVDS1_TX1-	14	LVDS1_TX3-	
15	LVDS1_TX1+	16	LVDS1_TX3+	
17	LVDS1_CLK-	18	GND	
19	LVDS1_CLK+	20	LVDS2_TX2-	
21	DETECT	22	LVDS2_TX2+	2 P-21.DETECT
23	LVDS2_TX0-	24	LVDS2_TX3-	
25	LVDS2_TX0+	26	LVDS2_TX3+	
27	LVDS2_TX1-	28	LVDS2_CLK-	
29	LVDS2_TX1+	30	LVDS2_CLK+	
31	GND	32	GND	
33	EDP0+	34	EDP1+	
35	EDP0-	36	EDP1-	
37	GND	38	AUX-	
39	HPD	40	AUX+	



	BIOS							
	Aptio Setu	up Utility						
Mair	n CSTIPC	Advanced	Chipset	Вос	ot Security	Sa	ave & E	Exit
							Item	Specific Help
Syste	em Language:		[English]					
Syste	em Time:		[10:50:34]				
Syste	em Date:		[01/01/20)12]				
F1	Help	Select Item		-/+	Change Values	5	F9	Setup Defaults
Esc	Exit	Select Men	u	Enter	Select Sub-Me	enu	F10	Save and Exit

System Time

System Date



1.LVDS

BIOS	<cstipc></cstipc>	<lcd set<="" th=""><th>ting></th><th></th><th></th></lcd>	ting>		
Aptio Setup Utility					
CSTIPC					
Active LFP	[Enab	ole LVDS]		Item	Specific Help
Primary IGFX Boot D	isplay [VBIOS	Default]			
Secondary IGFX Boo	t Display [Disabl	le]			
IGD Flat Panel	[1024*	*768]			
LVDS Panel Paramete	er [LVDS	18Bit-1CH	I]		
LVDS PWM	[100	%]			
LVDS SSC	[+/-19	%]			
F1 Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc Exit	Select Menu	Enter	Select Sub-Menu	F10	Save and Exit

Active LFPEnable LVDSLVDSLVDS Panel ParameterLVDSIGD Flat PanelLVDSLVDS PWMLVDS



BIOS	<cstipc></cstipc>	<act i<="" th=""><th>Power Loss Setting></th><th></th><th></th></act>	Power Loss Setting>		
Power ON		Pow	ver Off		
Aptio Setup Utility					
CSTIPC					
Restore AC Power L	oss [Power off]			Item	Specific Help
F1 Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc Exit	Select Menu	Enter	Select Sub-Menu	F10	Save and Exit

BIOS	<cstipc></cstipc>	<watchd< th=""><th>og Setting></th><th></th><th><watchdog< th=""></watchdog<></th></watchd<>	og Setting>		<watchdog< th=""></watchdog<>
Setting>					
Aptio Setup Utility					
CSTIPC					
WatchDog Setting	[Di	sabled]		Item	Specific Help
		-			
F1 Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc Exit	Select Menu	Enter	Select Sub-Menu	F10	Save and Exit



BIOS	<cstipc></cstipc>	<s5 rtc="" setting="" wake=""></s5>	<wake fixed<="" system="" th="" with=""></wake>
Time>	Enable		

Antio								
Aptios	setup Otinity							
	CSTIPC							
Wake s	system with Fi	ixed Time	[Disable	d]			Item	Specific Help
F1	Help	Select Item		-/+	Change Values	5	F9	Setup Defaults
Esc E	Exit	Select Menu		Enter	Select Sub-Me	nu	F10	Save and Exit

/ / 8:30:00

Aptio Setup Utility					
CSTIPC					
Wake system with Fixed	l Time [Enable	ed]		Item	Specific Help
Wake up hour	0				
Wake up minute	0				
Wake up second	0				
F1 Help Se	elect Item	-/+	Change Values	F9	Setup Defaults
Esc Exit Se	elect Menu	Enter	Select Sub-Menu	F10	Save and Exit

: ok



	BIOS	<cstip< th=""><th>C> <lan px<="" th=""><th>E Setting></th><th><network></network></th><th></th></lan></th></cstip<>	C> <lan px<="" th=""><th>E Setting></th><th><network></network></th><th></th></lan>	E Setting>	<network></network>	
	LAN1	PXE				
Aptio	o Setup Utility					
	CSTIPC					
Netv	vork	[Do not launch]		Item	Specific Help
F1	Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc	Exit	Select Menu	Enter	Select Sub-Me	nu F10	Save and Exit

BIOS <CSTIPC> <SATA Model Setting> <SATA Mode Selection>

Aptio	o Setup Utility					
	CSTIPC					
SATA	Mode Selectio	on [AHC	CI]		Item	Specific Help
F1	Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc	Exit	Select Menu	Enter	Select Sub-Menu	F10	Save and Exit



bios	bios				
BIOS	<cstipc></cstipc>	<special< td=""><td>Setting> < BIOS</td><td>Lock></td><td></td></special<>	Setting> < BIOS	Lock>	
Disable					
Aptio Setup Utility					
CSTIPC					
BIOS Lock	[Enable	e]		Item	Specific Help
		-			
F1 Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc Exit	Select Menu	Enter	Select Sub-Menu	F10	Save and Exit



BIOS <boot></boot>	
Aptio Setup Utility	
Main CSTIPC Advanced Chipset Boot Secur	ity Save & Exit
Boot Configuration	Item Specific Help
Setup Prompt Timeout 1	
Bootup NumLock State [On]	
Quiet Boot [Disable]	
Boot Option Priorities	
Boot Option #1 [KinstongDataT]	
Boot Option #2 [UEFI Kingsto]	
Boot Option #3 [UEFI: Built]	
Hard Drive BBS Priorities	
CSM16 Parameters	
F1 Help Select Item -/+ Change Val	ues F9 Setup Defaults
Esc Exit Select Menu Enter Select Sub-	Menu F10 Save and Exit

<Hard Driver BBS Priorities> <Boot Option #1> Boot Aptio Setup Utility Boot [KinstongDataT...] Boot Option #1 Item Specific Help Boot Option #2 [UEFI Kingsto...] F1 Select Item -/+ **Change Values** F9 Setup Defaults Help Enter Select Sub-Menu Esc Exit F10 Save and Exit Select Menu



BIOS	<chipset></chipset>	<systems agent="" con<="" th=""><th>figuratio</th><th>on> <graphics< th=""></graphics<></th></systems>	figuratio	on> <graphics< th=""></graphics<>
Configuration>	DVMT			
Aptio Setup Utility				
	Chipset			
Graphics Configuration			Item	Specific Help
IGFX VBIOS Version	1032			
lGfx Frequency	400MHz			
Graphics Turbo IMON Current	31			
Aperture Size	[256MB]]		
DVMT Pre-Allocated	[32M]			
DVMT Total Gfx Mem	[256M]			
Gfx Low Power Mode	[Enable]		
F1 Help Select Item	ו -/+	Change Values	F9	Setup Defaults
Esc Exit Select Mer	nu Enter	Select Sub-Menu	F10	Save and Exit

MAX" 1GB

2GB



BIOS CMOS <Advanced> <IT8786E Super IO Configuration>

	Aptio Setu	ıp Utility				
		Advanced				
IT87	86E Super IO Co	onfiguration			Item	Specific Help
Sup	er IO Chip		IT8786E			
Ser	ial Port 1 Config	guration				
Ser	ial Port 2 Config	guration				
Ser	ial Port 3 Config	guration				
Ser	ial Port 4 Config	guration				
Ser	ial Port 5 Config	guration				
Ser	ial Port 6 Config	guration				
F1	Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc	Exit	Select Menu	Enter	Select Sub-Menu	F10	Save and Exit

< Serial Port 4 Configuration>

<Serial Port Mode> RS485

		RS485		
Aptio Se	tup Utility			
	Advanced			
Serial Port 4 Confi	guration		Item	Specific Help
Serial Port		[Enable]		
Serial Port Mode		[RS232]		
Device Settings		IO=2E8h; IRQ=6;		
Change Settings		[IO=2E8h; IRQ=6;]		
F1 Help	Select Item	-/+ Change Values	F9	Setup Defaults
Esc Exit	Select Menu	Enter Select Sub-Menu	F10	Save and Exit
5	4			



BIOS CMOS <Advanced> <Hardware Monitor>

Aptio Se	etup Utility				
	Advanced				
Pc Health Status				Item	Specific Help
CPU Temp		: -51			
System Temp		: +37			
SYS_FAN Speed		: 2000 F	RPM		
VCORE		: +1.71	16 V		
+12V		: +12.6	0 V		
+ 5V		: +4.980) V		
VDIMM		: +1.2	10 V		
VSB3		: +3.264	V		
F1 Help	Select Item	-/+	Change Values	F9	Setup Defaults
Esc Exit	Select Menu	Enter	Select Sub-Menu	F10	Save and Exit
bios	CPU	CPU	CPU		0
	CPU		-50		CPU



BIOS <Security>

	Aptio Setu	ıp Utility						
Mair	n CSTIPC	Advanced	Chipset	Вос	ot Security	Sa	ve & E	Exit
Pass	word Descriptic	on					Item	Specific Help
Adm Use	inistrator Passv er Password	vord						
F1	Help	Select Item		-/+	Change Values		F9	Setup Defaults
Esc	Exit	Select Menu	ı	Enter	Select Sub-Menu	L	F10	Save and Exit



BIOS		<s< th=""><th colspan="6"><save &="" exit=""> .</save></th></s<>	<save &="" exit=""> .</save>					
	Aptio Set	up Utility						
Mair	n CSTIPC	Advanced	Chipset	Вос	ot Se	curity	Save &	Exit
Save Changes and Exit							Item	Specific Help
Discard Changes and Exit								
Save Changes and Reset								
Discard Changes and Reset								
Save change								
Discard change								
Restore Defaults								
Save as User Defaults								
Restore User Defaults								
Boot Override								
KingstoneDataTraveler 2.0								
UEFI: KingstoneDataTraveler 2.0								
UEFI: Built-in EFI shell								
Launch EFI Shell from filesystem device								
F1	Help	Select Item		-/+	Change	Values	F9	Setup Defaults
Esc	Exit	Select Men	u	Enter	Select S	ub-Menu	F10	Save and Exit