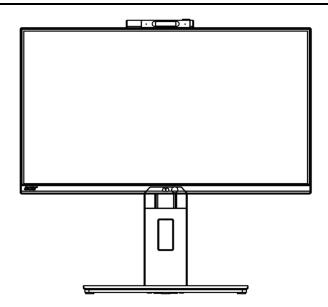
# Service Service Service



# Acer Monitor X25 LIFECYCLE EXTENSION GUIDE

# Contents

Important Safety Notice	3
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2. Mechanical Instruction	5
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# **Important Safety Notice**

Proper service and repair is important to the safe, reliable operation of all ACER Company Equipment. The service procedures recommended by ACER and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. ACER could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, ACER has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by ACER must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected. Hereafter throughout this manual, ACER Company will be referred to as ACER.

### WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from ACER. ACER assumes no liability, express or implied, arising out of any unauthorized modification of design.

Servicer assumes all liability.

### FOR PRODUCTS CONTAINING LASER:

DANGER-Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.

Take care during handling the LCD module with backlight unit

-Must mount the module using mounting holes arranged in four corners.

-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen. -Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.

-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).

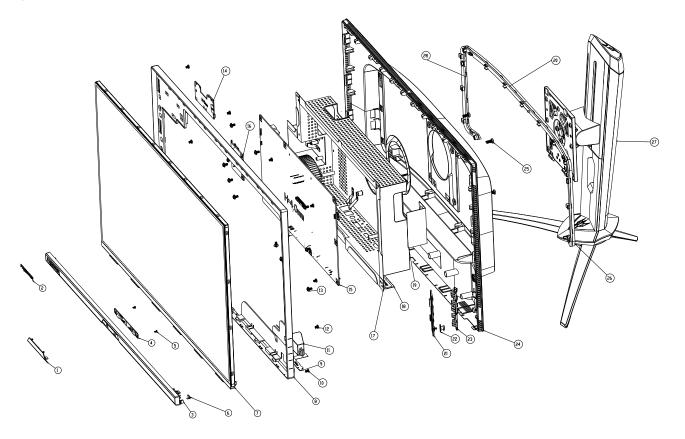
-Make certain that treatment person's body is grounded through wristband.

-Do not leave the module in high temperature and in areas of high humidity for a long time.

-Avoid contact with water as it may a short circuit within the module.

-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)1.

# 1. Exploded view diagram with list of items



Item	Description	TPV Part No.	ACER Part No.
4	LIGHT SENSOR BOARD	LSPCPQA1	#N/A
7	PANEL	750GBU25030UAJN000	#N/A
8	MIDDLE_FRAME	Q34G8549AEM06S0100	#N/A
9	LED BOARD	LEPCLQA3	55.TK5M2.003
14	OPTION BOARD	PTPCPQC3	#N/A
15	MAIN BOARD	CBPCPGQC1Q1	#N/A
16	USB BOARD	USBPQC0	55.TK5M2.006
21	KEY BOARD	KEPCPQB4	#N/A
	COAXIAL CABLE 51Pin to 51Pin 400(MB TO PANEL)	395GLM5151D606COAX	

# 2. Mechanical Instruction

# **Tools Required**

List the type and size of the tools that would typically can be used to disassemble the product to a point where components and materials requiring selective treatment can be removed. Tool Description:

- Screwdriver (Phillip-head, Hexagonal head)
- Penknife

**2.1 Disassembly Procedures:** S1. Remove the STAND-BASE ASS'Y and unscrew the screw on rear cover.

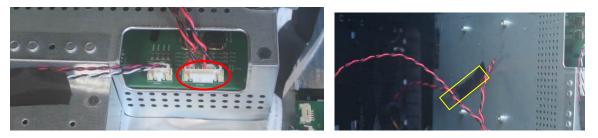




S2. Remove the rear cover. Use a tool (like picture using) to open all latches. (Be careful the position of the key board.)

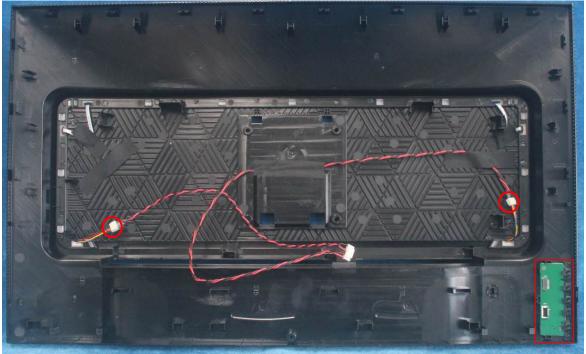


S3. Disconnect the cables.

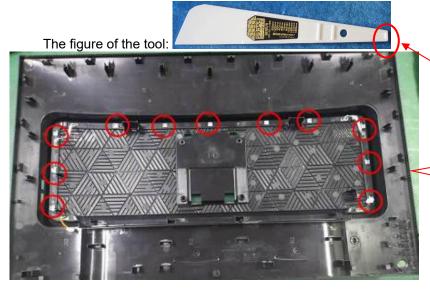




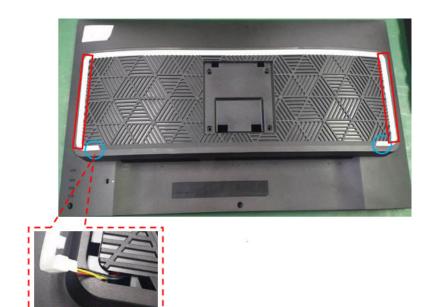
S4. Disconnect the pins, remove the Key board. Remove the LED MODULES.

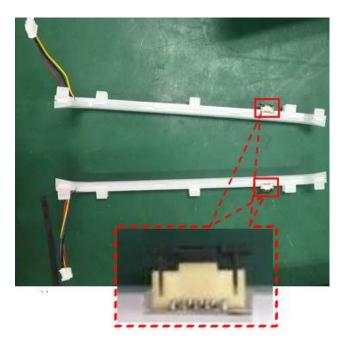


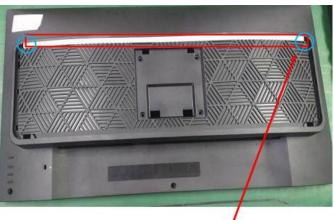
Use a tool (like picture using) to open all latches. Note: The TPV No. of the tool: BHT 07 5



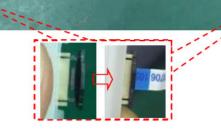
Push outward each hook (red circle in picture) on the light bar with <u>the end of the tool (red</u> circle in picture)





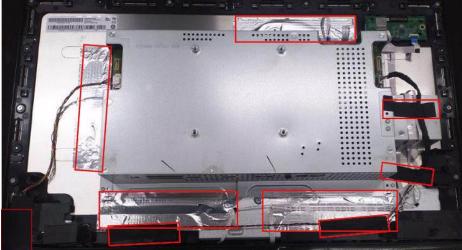




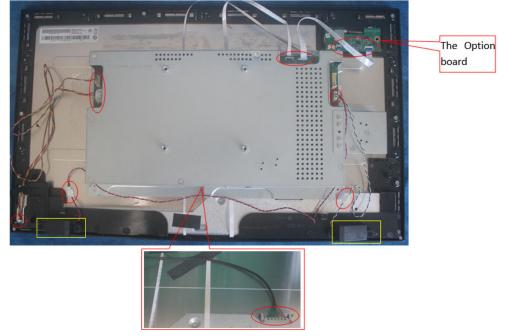




### S5. Tear up all tapes.



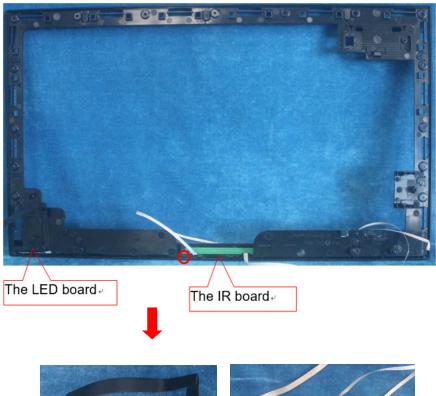
S6. Disconnect all of the cables as below.

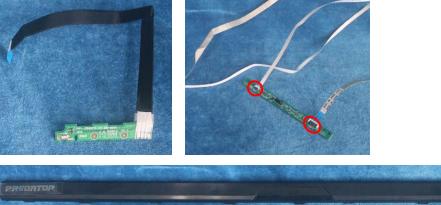


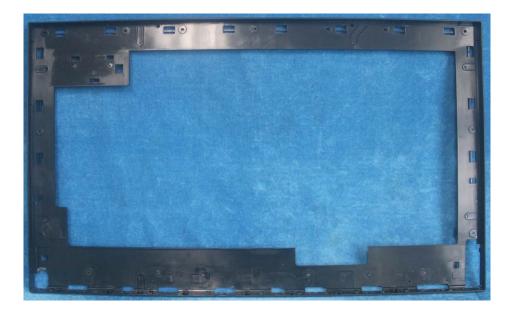
S7. Remove the screws to remove the middle frame and the panel.





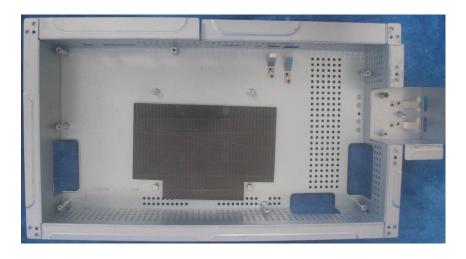




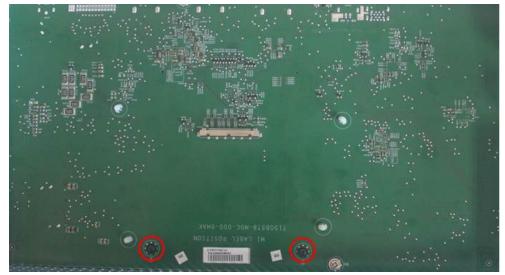


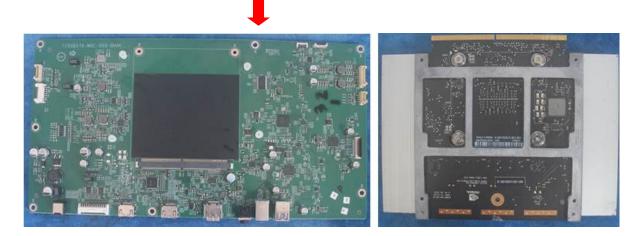
S8. Remove the screws to remove the boards. Disconnect all of the cables



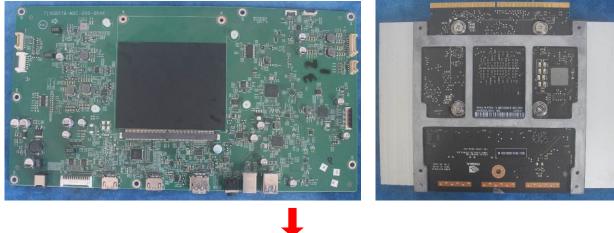


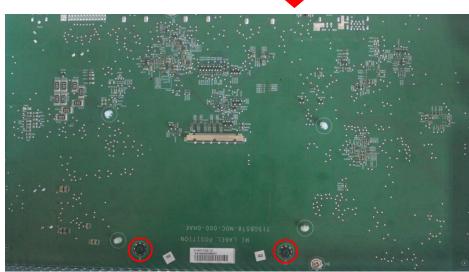
S9. Remove the screws to remove the main board and the G-sync board.





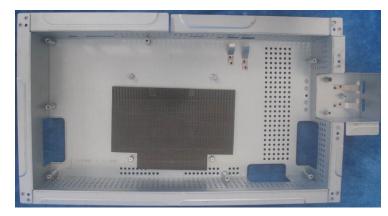
**2.2 Assembly Procedures:** S1. Prepare a Main board and a G-sync board. Assemble as below





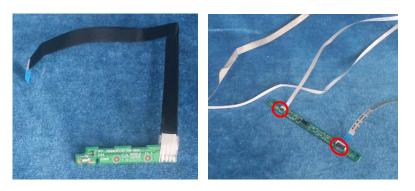
S2 Connect the main board and the USB board. Prepare the mainframe. Assemble as below.



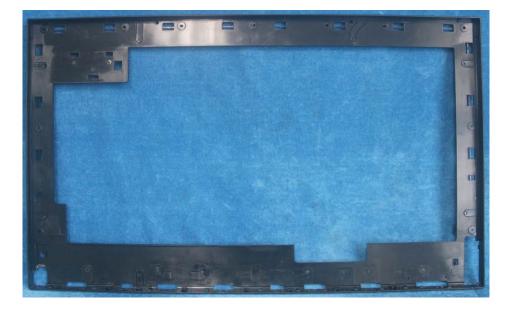


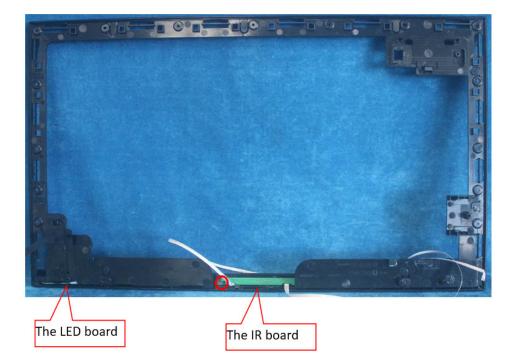


S3. Prepare a LED board, a Light Sensor board, a DECO bezel and the middle frame. Assemble as below.







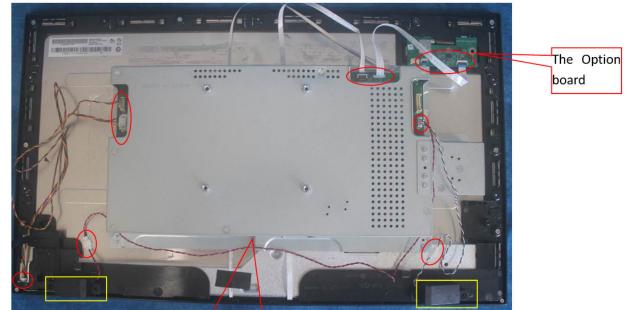


S4. Prepare the panel assemble as below picture.



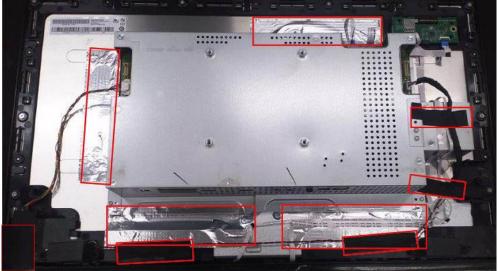


S5. Connect the pins as below picture. Assemble the Option board and the speakers.

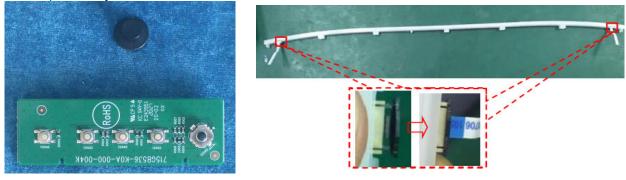


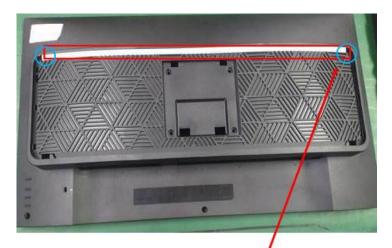


S6. Paste the tapes.

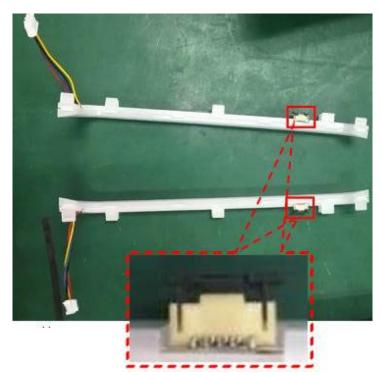


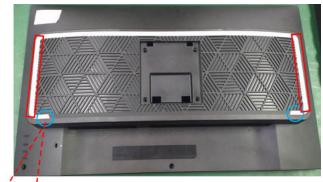
S7. Prepare a key board, LED MODULES and rear cover to assemble it.



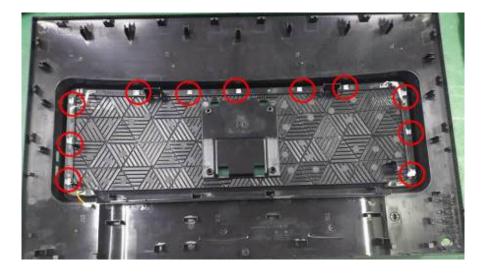






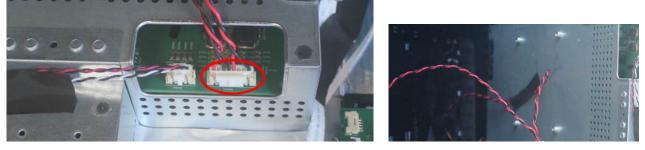


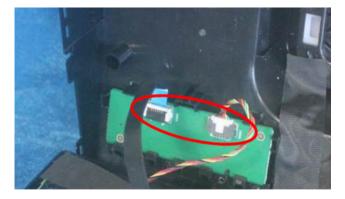




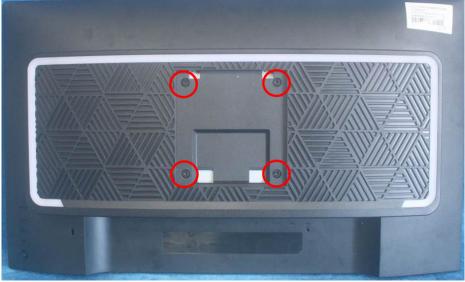


S8. Connect the pins and assemble it.





S9. Prepare a STAND-BASE ASSY to assemble it.

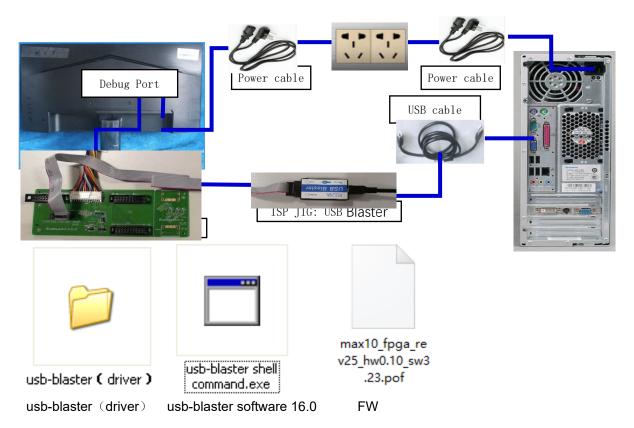




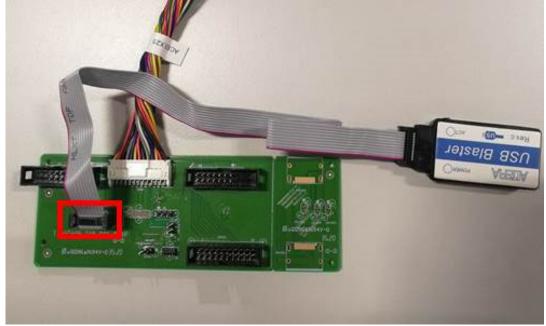
# 3. Firmware Upgrade Process

# **FPGA Upgrade Process**

1. Materials list and connectio (Intel Altera FPGA--- The software has been updated out of the factory)



Intel Altera FPGA FW Update connection mode, The red box is shown below.





**USB-BASTE TOOL** 



**Conversion Board: PTPCPQC4** 



Conversion Cable:395GH20026DM007000

1.1 G-SYNC module FW update

This chapter describes how to flash Bitstream, Bitmaps Files (.bin),OSD control FW(.elf) and Panel profiles into G-SYNC module.

- 1.2 Required Hardware
  - G-SYNC monitor with power supply
  - USB blaster

To download the program code into the FPGA, we use the Terasic USB Blaster: <u>http://www.terasic.com.tw/cgi-bin/page/archive.pl?Language=English</u>

The USB port of the blaster is connected to the development computer, and the header cable is connected to the header on the monitor.

- Installing the USB Blaster Device Driver
- 1.3 Required Software
  - Download the Nios II programming environment as part of the Altera Quartus II Design Suite from: <u>https://www.altera.com/download/sw/dnl-sw-index.jsp</u>. Select the Quartus II subscription Package(we only use the Nios II programming environment component of the suite-the "Paid license required" message can be ignored)

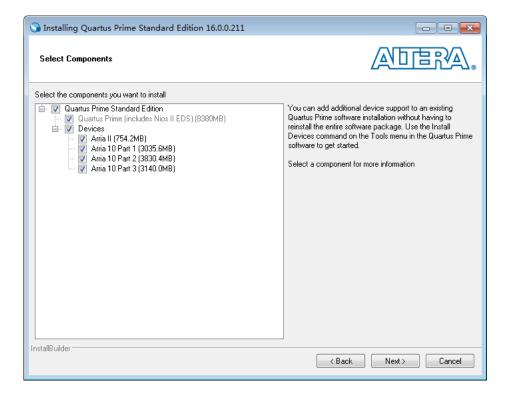
Double click the icon usb-blaster shell command. exe to install 16.0.0.211

🕥 Installing Quartus Prime	Standard Edition 16.0.0.211
, f	Setup - Quartus Prime Standard Edition 16.0.0.211
	Welcome to the Quartus Prime Standard Edition 16.0.0.211 Setup Wizard. The Quartus Prime software requires that your system have sufficient physical RAM to compile designs targeting specific devices. You can check the "Memory Recommendations" section in the "Quartus Prime Software and Device Support Release Notes" (https://www.altera.com/support/literature/lit- rn.html) for detailed memory requirements for a particular device. For more information about Altera software, go to http://www.altera.com.
	< Back Next > Cancel

🕥 Installing Quartus Prime Standard Edition 16.0.0.211	
License Agreement	
You can view the full license agreement at the link below or useinstall_lic option from command-line t before the installation. You must accept the terms of the agreement before continuing with the installation http://dl.altera.com/eula	
QUARTUS(R) PRIME LICENSE AGREEMENT VERSION 16.0, ALL DISTRIBUTIONS (WEB DOWNLOAD, DVDS)	<b>^</b>
Copyright (C) 2016 Intel(R) Corporation. Intel, Quartus, Nios(R) II, TalkBack(TM) and the Altera and Intel logos are trademarks of Intel Corporation in the US and other countries. Any other trademarks and trade names referenced here are the property of their respective owners.	
<	
Do you accept this license? I do not accept the agreement I do not accept the agreement	
InstallBuilder Kack	Next > Cancel

The software must install it to C disk, the path: C:\altera16.0 older.

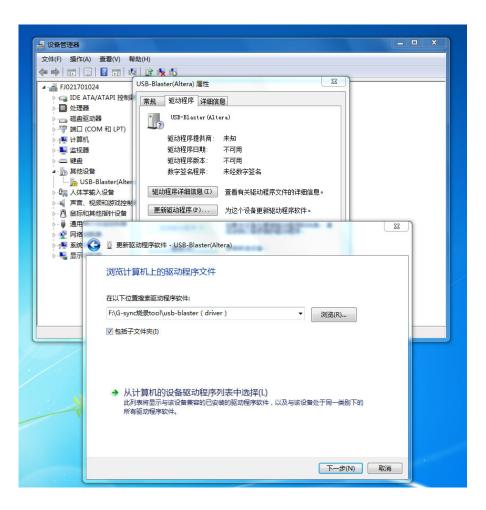
S Installing Quartus Prime Standard Edition 16.0.0.211	
Installation directory	
Specify the directory where Quartus Prime Standard Edition 16.0.0.211 will be installed Installation directory C:\altera\16.0	
InstallBuilder Kack	K Next > Cancel

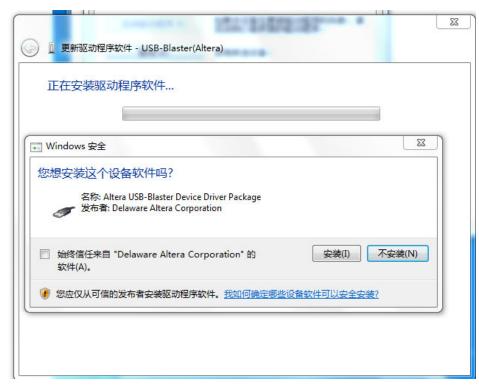


### 1.4 Flash Bitstream (if necessary)

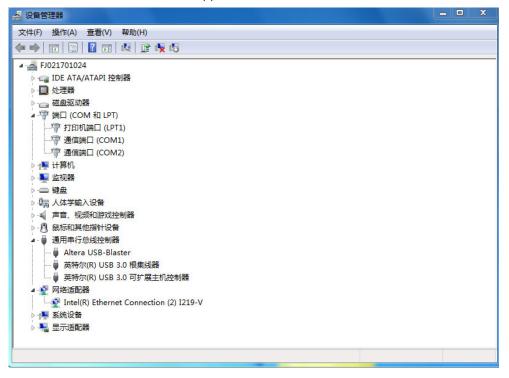
1.4.1.Install USB Blaster driver .:

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▷ · 🝙 IDE ATA/ATAPI 控制器	
▷ 🔲 处理器	
▷ → 磁盘驱动器	
▷ · ‴ 端口 (COM 和 LPT)	
▷ 1里 计算机	
▶ - ▶ 监视器	
2	
4 - 🕞 其他设备	
USB-Blaster(Altera)	
▶	
▷-10	
▶ - ● 週刊申(7志线论制商) ▶ - ● 网络适配器	
▶ 1 ● 系统设备	





1.4.2 If the driver install OK will appear this information:



1.4.3 Run Quartus Prime 16.0 Programmer, Click to set up the online device in numerical order as shown below

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ype ID	Message				Close			

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# 1.4.4 Click on the following figure to open the file to be burned

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System (1) Processing	>
System (1) Processing	

## 1.4.5 According to the figure below, the digital sequence began to burn FPGA

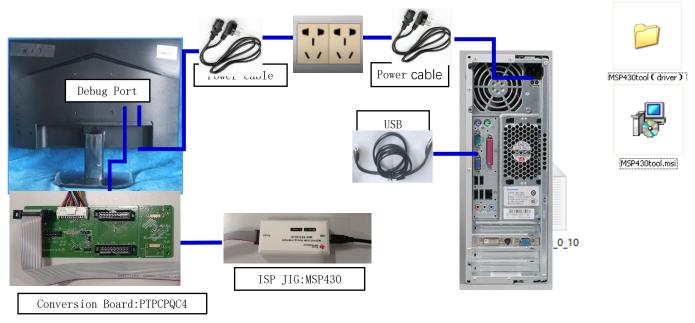
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<												>

## For PUC FW upgrade:

1. Materials list and connection(The software has been updated out of the factory)





Conversion Board: PTPCPQC4



Conversion CABLE:395GH20026DM007000



MSP430 tool

PUC FW Update connection mode, The red box is shown below.



Purchase MSP430 TOOL the contact way: Beijing zhongguancun trade electronics co., LTD., Contact person: Li Shaolin, Contact phone number: 13621123062, Product drive default is VCP, before buying, please ask them to upgrade to the CDC version.

2.Install driver

When insert the msp430 tool to PC, you need to install the driver. we suggest use windows 10 64bit

3. TI micro-controllers FW update



to install ISP program.the version is V3.1-0.

### 3.1.1 Double-click 3.1.2 TI micro-controllers FW update

This chapter describes how to flash new code into the two TI-MSP430 micro-controllers on the NVIDIA G-SYNC module and base board. These two micro-controllers take care of handling the button presses and the LED control of the monitor. One of the two micro-controllers is located on the G-sync module, and the second micro-controllers is located on the base board.



### 3.1.3 Required Hardware

The hardware required to update the code on the two micro-controllers is a TI-MSP430 USB debug interface. This device can be ordered from TI at <u>http://www.ti.com/tool/msp-fet430uif</u>.

### 3.1.4 Required Software

In order to load the binary code into the flash memories for the micro-controllers, we use the Elpotronic FET-Pro430 Lite software. This software is free to use and can be downloaded from <u>http://www.elprotronic.com/download.html</u>.



3.1.0 Updating the base board micro-controller

Connect the cable that came with the TI MSP-FET430UIF in the way indicated in the picture above. Make sure that pin1 of the ribbon cable header that connects to the base board. Connect the USB cable connected to the MSP-FET430UIF to the computer that has the FET-Pro430 Lite software installed. At this time Windows should have a popup that says "Installing New Device Driver Software", which should finish without any issues and install the USB driver for the MSP-FET430UIF.

3.1.5 Starting the Software and Flashing the New Code



Double click the shortcut to the "Lite FET-Pro430 Elprotronic" Icon created on the desktop earlier when installing

	About/He	•	
SN File Microcontroller Type Status iroup: MSP430F5308 Total: Target: Balance: 0 BSL: Selected Device Information		wer Device from Adapter       2V     Device       2V     Device       Voltage     Voltage       POWER ON/OFF     Image: Compare the second se	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Enable Blank Chece AUTO PROG. Verify Security Fuse Enable Security Fuse
RAM - 6144 bytes; FLASH - 16 kB; eport		emory:	BLANK CHECK
	Ne	Read SN Read SN	WRITE FLASH
	N	ext SN: 00000000 Format: yyyy1234	VERIFY FLASH     READ / COPY
Port: USB Automatic	Era	se / Write memory option:	
Spy-Bi-Wire (2-wires)	×.,	All Memory *	

3.1.6 Selecting the correct micro-controller Select the Group "MSP430G5xx", and the device (right underneath)"MSP430G5308.the voltage setting to 3.2v.

3.1.7 Selecting the correct communication protocol Click on the "setup->connection/device reset" menu, and the following popup should come up:

ET-Pro43	30 (FET MSP430 Flash Programmer) - E	Iprotronic Inc.	
File View	Setup Serialization Tools About/He	lp	
Open Code	Lock/Unlock Setup		Blow Security Fuse
	Memory Options		📃 Enable
SN File	Check Sum Options	wer Device from Adapter	BLOW FUSE
Microcontro	BSL Password and Access	.5V V Device	Device Action
Group: MSF	Connection / Device Reset		Reload Code File
MSP430	Preferences	POWER ON/OFF	📝 Enable Blank Check
Target:	Balance: 0	RESET	AUTO PROG.
BSL:	C	heck Sum	
	S	jource:	Verify Security Fuse

실 设备管理器	- • •
文件(£) 操作(A) 查看(⊻) 帮助(±)	
<ul> <li>▲ 爲 FJ021006285</li> <li>▲ DVD/CD-ROM 驱动器</li> <li>&gt; 급 IDE ATA/ATAPI 控制器</li> <li>&gt; 값 RealTek LPTIO Device Drivers</li> <li>&gt; ① 处理器</li> </ul>	
<ul> <li>○ 磁曲驱动器</li> <li>○ 第回 (COM 和 LPT)</li> <li>○ ECP 打印机층回 (LPT1)</li> <li>○ MSP-FET430UIF - CDC (COM9)</li> <li>○ USB Serial Port (COM22)</li> <li>○ 通信층回 (COM1)</li> <li>○ 遵信층回 (COM2)</li> </ul>	
<ul> <li>- 4号 计算机</li> <li>- 4号 达视器</li> <li>- ● 键曲</li> </ul>	
<ul> <li>□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□</li></ul>	
<ul> <li>→ 通行中13200010188</li> <li>→ ● 系统设备</li> <li>&gt; ● ■ 显示适配器</li> </ul>	

After install the driver, device manager will display this **MSP-FET430UIF - CDC**, software COM port need setting same with device manager, choose COM11, this moment the LED lamp will lighting with red and green. Make sure that the "Spy Bi Wire" communication with Target Devices is selected(and not "JTAG"). All other options should already be correct. Click "ok" to apply and close popup. notes: first time open the software, default choose the **COT COT COT** 

	Target's Connection / Reset Options		
Open Co SN File Microcor Group: M	Communication with Target Device	OK Parallel Port FET) Cancel	) nable USE de File
MSP4 Target: BSL: Selected Ra Report	Reset Options Any [Recommended] PUC only RST/NMI only Vcc Off/On only	COM Port USB> COM11 LPT-1 Automatic COM11 COM11 COM11 COM11	nk Check ROG. ity Fuse LASH HECK
	Final Target Device action    Switch Vcc OFF   Reset and start the application program  Used Adapter  Tr's FET, USB-FET or hardware compatible	To identify a connection, dick a port in the list to see the Mode LED on the attached UIF light up. - uses TI's MSP430.dll library.	LASH / Model LASH
Port: US Spy-Bi-\	<ul> <li>Other-1 ≥&gt;</li> <li>Other-2 ≥&gt;</li> <li>Browse full path and name of the MSP430</li> </ul>	dll file supplied with the adapter you have.	F5)

har Texas Instruments MSP430-JTAG

, click

If the driver don't install ok, will display this message DriverInstaller.exe install the driver of MSP430-CDC.

Address 🛅 H:\MSP430tool ( 🖁	驱动)\MSP43Otool(驱动)\CDC-Certified
Links 🛅 ScreenCapture, exe	🛅 image_20150109_22inch  🖪 DDC. rar
文件和文件夹任务	DPInst64. exe dpinst. exe DriverInstaller. exe
其它位置	<ul> <li>DriverUninstaller.exe</li> <li>msp430tools.cat</li> </ul>
<ul> <li>➢ MSP430tool(驱动)</li> <li>금 我的文档</li> <li>③ 我的电脑</li> <li>④ 网上邻居</li> </ul>	Smsp430tools.inf

文件(F) 操作(A) 查看(V) 帮助(H)	

If this is newly purchased, or after install the driver reminder the following information, need to upgrade it to CDC driver, please contact fixture manufacturers and let them provide solutions.

	- • •
文件(F) 操作(A) 查看(V) 帮助(H)	
<ul> <li>◆ ● III E II ● III ●</li> <li>● IDE ATA/ATAPI 控制器</li> <li>● ● 处理器</li> <li>● ● 处理器</li> <li>● ● CCP 打印机读口 (LPT1)</li> <li>● ● ECP 打印机读口 (LPT1)</li> <li>● ● ECP 打印机读口 (LPT1)</li> <li>● ● IDE III (COM1)</li> <li>● ● IDE III (COM2)</li> <li>● ● IDE IIII (COM2)</li> <li>● ● IDE IIIII (COM2)</li> <li>● ● IDE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</li></ul>	

3.1.8 Selecting the code file Now click the "Open code file" button, and browse to the "Acer\_buttonKey.txt" file and select it. The window should now look like this:

pen	Code File 🛛 ->	path:	Blow Security Fuse		
IN	<mark>山</mark> 打开		<b>—</b>		
1icr	查找范围(I):	🛯 X25_AU0_M250HAN03_0_36_HW_2001_DP5_1 👻 📀	🎓 📂 🛄 🕶		
out	C.	名称	修改日期		
Μ	最近访问的位置	\mu FW	2020/10/22 8:55		
arg	殿近切門印虹豆	ACER_X25_MSP430G2744_NAVIKEY_FW0_1_20	2020/9/4 17:47 ;		
SL		P3813_puc_0_102.txt	2020/10/20 2:50		
ele	卓面	README.txt	2020/9/2 16:59		
por	<b>唐</b>				
	计算机				
	(È	< Ⅲ 文件名(W): P3813_puc_0_102.txt	▶ ▼ 打开(0)		
	网络	文件类型(T): *. txt, *. s19,*. s28,*. s37, *. hex,	*. ah ▼ 取消		
Pot		☑ 以只读方式打开 (R)			

Guarantee the type of IC is same with TOOL setting, click "AUTO PROG" button to update.

Open Code File → P3813_puc_0_102.t: pal	th: I:\ACER X25\PW\X25_AU0_M250F	Blow Security Fuse
SN File	Power Device from Adapter	BLOW FUSE
Microcontroller Type Status Group: MSP430F5xx  MSP430F5308 Total:	3.2V   Device Voltage POWER ON/OFF	Device Action Reload Code File
Target: Balance: 0 BSL:	RESET Check Sum	AUTO PROG.
Selected Device Information RAM - 6144 bytes; FLASH - 16 kB; leport	Source: 0x04256F7C Memory:	ERASE FLASH
Reading Code File	Device Serialization	BLANK CHECK
	Next Model-Group-Revision:	VERIFY FLASH
	Next SN: 00000000 Format: yyyy1234	READ / COPY
Port: USB Automatic Spy-Bi-Wire (2-wires)	Erase / Write memory option: *All Memory *	
		NEXT (F5)

Open Code File    P3813_puc_0_101.t path: D:\Acer_G-SYNC\SVN\GSYNC_R4	Blow Security Fuse
SN File Power Device from Adapter	BLOW FUSE
Microcontroller Type       Status       3.2 V       Device Voltage         Group:       MSP430F5308       Total:       Balance:       0         Target:       MSP430F5308       Total:       Balance:       0         Selected Device Information       RESET          RAM - 6144 bytes;       FLASH - 16 kB;       Check Sum         Source:       0x04431CE8         Memory:          JTAG communication initialization       0K         JTAG communication initialization       0K         All memory Blank checking       0K         Next SN:       00000000         Format:       yyy1234	Device Action Reload Code File F Enable Blank Check Verify Security Fuse F ERASE FLASH BLANK CHECK WRITE FLASH WRITE SN / Model VERIFY FLASH READ / COPY
Port: USB Automatic Erase / Write memory option:	
Spy-Bi-W/ire (2-wires) * All Memory *	AUTO PROGRAM
Memory Blank checking	NEXT (F5)

FET-Pro430 (FET MSP430 Flash Programmer) - Elprotronic Inc. — 

 File
 View
 Setup
 Setialization
 Tools
 About/Help

Open Code File > P3813_puc_0_101.t: path:	D:\Acer_G-SYNC\SVN\GSYNC_R4	Blow Security Fuse
SN File	Power Device from Adapter	BLOW FUSE
Microcontroller Type Group: MSP430F5xx MSP430F5308 Target: MSP430F5308 BSL: Status Totak Balance: 0	3.2V  Device Voltage POWER ON/OFF RESET Check Sum Source: 0x04431CE8	Device Action       □     Reload Code File       ☑     Enable Blank Chec       ☑     AUTO PROG.       ☑     Verify Security Fuse
Selected Device Information RAM - 6144 bytes; FLASH - 16 kB; Report	Memory: 0x04431CE8	ERASE FLASH
Reading Code File	Device Serialization	BLANK CHECK
Verifying Security Fuse OK Erasing memory	Next Model-Group-Revision:	WRITE SN / Model
All memory Blank checking	Next SN: 00000000	VERIFY FLASH
D O N E (run time = 18.0 sec.)	Format: yyyy1234	READ / COPY
Port: USB Automatic	Erase / Write memory option:	
Spy-Bi-Wire (2-wires)	* All Memory *	AUTO PROGRAM
		NEXT (F5)

#### 3.1.9 Software version confirmation

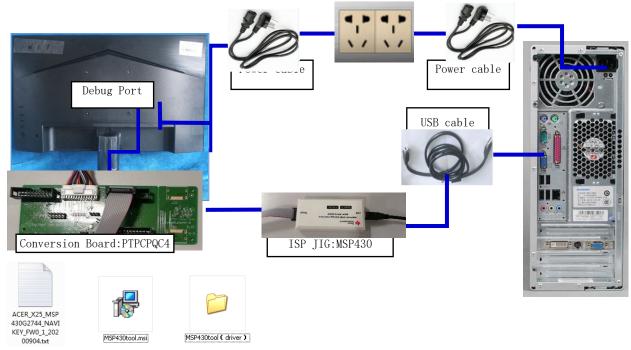
Go to the factory menu to confirm the PUC version, At present the latest 0.103, It is not this version(0.103) that needs to be updated.

OSD Release Date:	20201204
OSD FW Model Name:	X25
OSD Version :	1.1(WW)
eUC Key FW Version :	0.1
pUC FW Version:	0.103
mUC FW Version :	0.67
HW Revision :	2001
DP Version :	5.29
NV FW Version:	7.124
GFX Version	0.3
Panel Profile Name:	AUO_M250HAN03_1edp
Panel Profile Version:	0.37

 $\times$ 

# For EUC KEY FW upgrade:

1. Materials list and connectio(The software has been updated out of the factory)





Conversion Board:PTPCPQC4

Conversion CABLE:395GH20026DM007000

EUC KEY FW Update connection mode, The red box is shown below.



MSP430 tool



1.1.1 Starting the Software and Flashing the New Code

Double click the shortcut to the "Lite FET-Pro430 Elprotronic" **TER** icon created on the desktop earlier when installing the software. This should bring up the following window:

1.1.2 Selecting the code file Now click the "Open code file" button, and browse to the "Acer\_buttonKey.txt" file and select it. The window should now look like this

FET-Pro430 (FET MSP430 Flash Programme File View Setup Serialization - Tools - Abu		- 🗆 🗙
	D:\Acer_G-SYNC\SVN\GSYNC_R4	Blow Security Fuse
	Power Device from Adapter	BLOW FUSE
Microcontroller Type Status Group: MSP430G2xx MSP430G2744 Total:	3.2V  Device Voltage POWER ON/OFF RESET	Device Action Reload Code File Enable Blank Check
Target: Balance: 0 BSL: 0	Check S晶擊進行燒錄	AUTO PROG.
Selected Device Information RAM - 1024 bytes; FLASH - 32 kB;	Source: 0x0A33449F	ERASE FLASH
Report Reading Code File	Device Serialization	BLANK CHECK
Code size = 0x3334 ( 22336 ) bytes	Read SN	WRITE FLASH
	Next Model-Group-Revision:	VRITE SN / Model
	Next SN: 00000000 Format: yyyy1234	READ / COPY
Port: USB Automatic Spy-Bi-Wire (2-wires)	Erase / Write memory option:     * All Memory *	
	out/Help	×
le View Setup Serialization Loois Ab		
le View Setup Serialization Loois Ab Open Code File -> ACER_R4_MSP4300 path	out/Help         x       D:\Acer_G-SYNC\SVN\GSYNC_R4         Power Device from Adapter         3.2 V       Device         Voltage         POWER ON/OFF         RESET         Check Sum	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Enable Blank Check
Image: Image	out/Help         x       D:\Acer_G-SYNC\SVN\GSYNC_R4         Power Device from Adapter         3.2 V       Device         Voltage         POWER ON/OFF       O         RESET	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Enable Blank Check AUTO PROG.
le View Setup Serialization Tools Ab Open Code File → ACER_R4_MSP430( path SN File Microcontroller Type Group: MSP430G2744 ▼ Target: MSP430G2744 ▼ Target: MSP430G2744 ▼ BSL: ver. 0.00 Selected Device Information RAM - 1024 bytes; FLASH - 32 kB; Report	Cut/Help	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Enable Blank Check AUTO PROG.
le View Setup Serialization Tools Ab Open Code File → ACER_R4_MSP430( path SN File Microcontroller Type Group: MSP430G27x4 ▼ MSP430G2744 ▼ Target: MSP430G2744 BSL: ver. 0.00 Selected Device Information RAM - 1024 bytes; FLASH - 32 kB; Report TAG communication initialization OK Verifying Security Fuse Reading Retain Data	out/Help         x       D:\Acer_G-SYNC\SVN\GSYNC_R4         Power Device from Adapter         3.2 V       Device         Voltage       POWER ON/OFF         POWER ON/OFF       O         RESET          Check Sum       Source:         Source:       0x0A33449F         Memory:       O         Device Serialization       Read SN	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Finable Blank Check AUTO PROG. Verify Security Fuse ERASE FLASH
le View Setup Serialization Tools Ab Open Code File → ACER_R4_MSP430( path SN File Microcontroller Type Group: MSP430G27x4 ▼ MSP430G2744 ▼ Target: MSP430G2744 BSL: ver. 0.00 Selected Device Information RAM - 1024 bytes; FLASH - 32 kB; Report TAG communication initialization OK Verifying Security Fuse Reading Retain Data	out/Help         x       D:\Acer_G-SYNC\SVN\GSYNC_R4         Power Device from Adapter         3.2V       Device         Voltage         POWER ON/OFF         RESET         Check Sum         Source:       0x0A33449F         Memory:         Device Serialization         Read SN         Next Model-Group-Revision:	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Enable Blank Check AUTO PROG. Verify Security Fuse ERASE FLASH BLANK CHECK WRITE FLASH
le View Setup Serialization Tools Ab Open Code File → ACER_R4_MSP430( path SN File Microcontroller Type Group: MSP430G2xx ▼ MSP430G2744 ▼ Target: MSP430G2744 BSL: ver. 0.00 Selected Device Information RAM - 1024 bytes; FLASH - 32 kB; Report TAG communication initialization OK Verifying Security Fuse	out/Help         x       D:\Acer_G-SYNC\SVN\GSYNC_R4         Power Device from Adapter         3.2 V       Device         Voltage       POWER ON/OFF         POWER ON/OFF       O         RESET          Check Sum       Source:         Source:       0x0A33449F         Memory:       O         Device Serialization       Read SN	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Enable Blank Check AUTO PROG. Verify Security Fuse ERASE FLASH BLANK CHECK WRITE FLASH WRITE SN / Model
le View Setup Serialization Tools Ab Open Code File → ACER_R4_MSP430( path SN File Microcontroller Type Group: MSP430G2xx ▼ MSP430G2744 ▼ Target: MSP430G2744 BSL: ver. 0.00 Selected Device Information RAM - 1024 bytes; FLASH - 32 kB; Report TAG communication initialization OK Verifying Security Fuse	out/Help         x       D:\Acer_G-SYNC\SVN\GSYNC_R4         Power Device from Adapter         3.2 V       Device         Voltage       POWER ON/OFF         POWER ON/OFF       O         RESET          Check Sum       Source:         Source:       Dx0A33449F         Memory:       O         Device Serialization       Read SN         Next Model-Group-Revision:       Next SN:         Next SN:       00000000	Blow Security Fuse Enable BLOW FUSE Device Action Reload Code File Enable Blank Check AUTO PROG. Verify Security Fuse ERASE FLASH BLANK CHECK WRITE FLASH WRITE SN / Model VERIFY FLASH

Memory Blank checking

Open Code File -> ACER_R4_MSP4300 pa	eth: D:\Acer_G-SYNC\SVN\GSYNC_R4	Blow Security Fuse
SN File	Power Device from Adapter	BLOW FUSE
Microcontroller Type iroup: MSP430G2xx MSP430G2744 Target: MSP430G2744 BSL: ver. 0.00 Selected Device Information	3.2V     Device Voltage       POWER ON/OFF     Image       RESET     Image       Check Sum     Source:       0x0A33449F	Device Action Reload Code File Enable Blank Chec AUTO PROG.
RAM - 1024 bytes; FLASH - 32 kB;	Memory: 0x0A33449F	ERASE FLASH
eport Carling Security Fuse	Device Serialization	BLANK CHECK
TAG communication initialization OK Il memory Blank checking	Next Model-Group-Revision:	WRITE SN / Model
lash programming	Next SN: 00000000	VERIFY FLASH
D O N E ( run time = 30.5 sec.)	✓ Format yyyy1234	READ / COPY
Port: USB Automatic	Erase / Write memory option:	
Spy-Bi-Wire (2-wires)	* All Memory *	- AUTO PROGRAM

1.1.3 Flash the code

Now click the "AUTO PROG" Button. After finished, the screen should look like this: In the process of burning LED lamp will flashing red and green across

When you need writing other machine, only need connect ok and press "space key" it will automatic update the FW don't need close the software.

When you update the FW appear this error, please check:

- 1. If have power on
- 2. The tool connection if is OK,
- 3. The tool connecting cable red pin need connect together with 14 pin needle
- 4. If still can't solve I, please replace a PC or replace a tool and try again.
- 5. Use windows 10 system 64 bit.

SN File	Power Device from Adapter		BLOW FUSE
Microcontroller Type Status (Group: MSP430F5xx  MSP430F5308  Total: Target: MSP430F5308 Balance: 0 BSL: ver. 0.00	3.2V   POWER ON/OFF  RESET  Check Sum	Devic	Action     Reload Code File     Enable Blank Check     AUTO PROG.
Selected Device Information RAM - 1024 bytes; FLASH - 32 kB;	Source: 0x09C77588 Memory: 0x09C77588		Verify Security Fuse
Integration Initialization failed  Arritying Security Fuse failed FAILED III	Device Serialization	0	BLANK CHECK
TAG communication initialization failed veritying Security Fuse failed FAILED III	Next Model-Group-Revision	•	WRITE SN/Model
TAG communication initialization failed rentying Security Fuse failed FAILED III *	Next SN: 00000000 Format: yyyy1234		READ/COPY
Port USB COM26	Erase / Write memory option:		
JTAG (4-wires)	* All Memory *		AUTO PROGRAM
		-	NEXT (F5)

# If appear this error, please to update the version of software:

SNEE		Power Device from Adapter		BLOW FUSE
Microcontroller Type Sroup: MSP430F5xx MSP430F5308 Target MSP430F5308 BSL: ver. 0.00 Selected Device Information Pavice Information	Status Fail Total Balance: 0	3.2V Device Voltage POWER ON/OFF	Devic	e Action Reload Code File Enable Blank Check AUTO PROG. Verity Security Fuse ERASE RLASH
RAM - 1024 bytes: FLASH - 32 kB: Report Vertying Security Fuse OK Reading Retain Data done Erasing memory done Vertying Retain Data done JTAG communication initialization OK		Device Serialization		BLANK CHECK WRITE FLASH
All memory Blank checking -,without protected area Selected Memory Blank checking Flash programming Verlying check sum FAILED III	tailed tailed 3OK≣ done	Next Model-Group-Revision           Next Model-Group-Revision           Next SN:           00000000           Formet yyyy1234	×	VERIFY FLASH
Port USB COM30 Spy-Bi-Wire (2-wires)		Erase / Write memory option: * All Memory *		AUTO PROGRAM

### Tool software update steps.

e View Setup Serialization T			-	
Open Code File		T430UIF Firmware version	Blow Security Fuse	
	MSP-FET430U	JIF Firmware Update		Enable
SN File	Firmware upg	grade from V2 to V3		BLOW FUSE
Microcontroller Type Stat Firmware dow		vngrade from V3 to V2		a
roup: MSP430G2xx 👻	Combine Cod	le Files	Device	Reload Code File
MSP430G2553 -		POWER ON/OFF		Enable Blank Check
Tota		RESET		AUTO PROG.
-	ce: 0	Check Sum		AUTU PROG.
BSL:		Source:		Verify Security Fuse
Selected Device Information			_	
RAM - 1024 bytes; FLASH - 32	kB;	Memory:		ERASE FLASH
eport		Device Serialization		BLANK CHECK
				WRITE FLASH
		Next Model-Group-Revision:		WRITE SN/Model
				VERIFY FLASH
	-	Next SN: 00000000 Format: yyyy1234		READ / COPY
Port: USB COM26		Erase / Write memory option:		
Spy-Bi-Wire (2-wires)		* All Memory *		
			-	NEXT (F5)

# After tool software update success will appear this message;

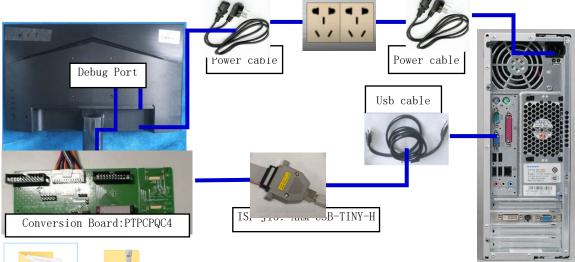
tatus	Power Device from Adapter		Enable
tatus			BLOW FUSE
	25V 🗸 Der	vice	ce Action
ISP-FET430UIF	Firmware Update		Reload Code File
DLL Version:	3 02 05 004		🗹 Enable Blank Chee
DLL v2 Version:	2.04.09.001		AUTO PROG.
Firmware Version:	3.02.05.004		
	Update Complete.	100	Verify Security Fuse
			RASE FLASH
Start Update		Exit	BLANK CHECK
			WRITE FLASH
		SN	WRITE SN / Mode
	Nevt SN/ 00000000		VERIFY FLASH
~	Format: yyyy1234		READ / COPY
	Firmware Version:	DLL v2 Version: 2.04.09.001 Firmware Version: 3.02.05.004 Update Complete. Start Update Read Next Model-Group-Revision: Next SN: 00000000	DLL v2 Version: 2.04.09.001 Firmware Version: 3.02.05.004 Update Complete. 100 Start Update Exit Read SN Next Model-Group-Revision: Next SN: 00000000

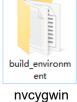
#### Note: How to remove the tool



# For G-Sync FW upgrade:

**1.** Materials list and connection



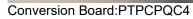


X25\_AU0\_M250 HAN03\_0\_36\_H W\_2001\_DP5\_15 \_FW\_LIB\_7\_10... FW

Contraction and







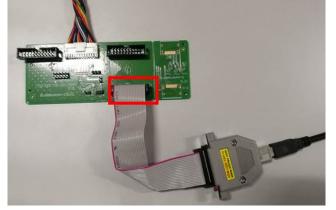
Conversion CABLE:395GH20026DM007000

ARM-USB-TINY-H



USB 2.0 cable: 389G017553500H

G-Sync FW Update connection mode, The red box is shown below.



Purchase ARM-USB-TINY-H TOOL the company's contact way: fujian fuzhou xi chong automation co., LTD., Contact person: Hang.Xia Contact phone number: 15059972837

1.1.1 Install driver

When insert the msp430 tool to PC, you need to install the driver. we suggest use windows 10 64bit 1.1.2 Nvcygwin FW update

Run install.cmd, The installation	n path C:\nvcygwin (Setup copy runs on Disk C)
distrib drivers	C 0% - Cygwin Setup     -     -     ×       Progress     This page displays the progress of the download or installation.     E
opt patch scripts install.cmd	Running 0/Perpetual /etc/postinatal/0p_update#nfo-dir.dash Progress: Total: Disk:
	«Back Next Cancel

1.1.3 Take out the Olimex ARM-USB-TINY-H TOOL, Through it USB cable Connect to the prepared PC/NV Open Device Manager and confirm that the device appears in the list.( In the red box below)



1.1.4 Go to the unzipped NvCYgwin-1.0.2 folder to execute UsbDriversTool.exe. (nvcygwin-1.0.2\drivers\openocd\drivers\UsbDriverTool.exe) Click on the options in the red box to install it

onok on the options in the rea	box to motan it								
名称	修改日期	类型	大小						
FTDI CDM v2.08.28 Certified	2020/11/26 11:03	文件夹							
ST-Link	2020/11/26 11:03	文件夹							
	2020/11/26 11:03	文件夹							
	2020/11/26 11:03	文件夹							
Interop.CERTENROLLLib.dll	2019/7/17 2:35	应用程序扩展	172 KB						
🖋 UsbDriverTool	2019/7/17 2:35	应用程序	479 KB						
UsbDriverTool.exe.config	2019/7/17 2:35	CONFIG 文件	1 KB						

evice Name	Vendor ID	Device ID	Interface
Olimex OpenOCD JTAG ARM-USB-TINY-H	15BA	002A	00 1
「USB 輸入裝置	046D	C52B	02
「USB 輸入裝置	046D	C52B	01
<sup>(</sup> Logitech USB Input Device	046D	C52B	00
USB 視訊装置	OBDA	5539	00
Olimex OpenOCD JTAG ARM-USB-TINY-H	15BA	002A	01
USB Composite Device	OBDA	5539	
USB Composite Device	15BA	002A	
USB Composite Device	046D	C52B	
USB Composite Device	0A5C	5842	
Dell ControlVault w/o Fingerprint Sensor	0A5C	5842	00
Intel(R) Wireless Bluetooth(R)	8087	OAAA	
Microsoft Usbccid Smartcard Reader (WUDF)	0A5C	5842	01
			2

	<b>SR devices were found in your o</b> Driver Selection		×
vice Name	Please select a driver you want to	o install for this device:	>e
Olimex O USB 輸入	Driver	Vendor	
USB輸入	FTDI CDM	(universal driver)	
Logitech	ST-Link Driver	(universal driver)	
USB 視計	Libusb - WinUSB	(universal driver)	
Olimex O	WinUSB	(universal driver)	
USB Con			
Dell Cont			
Intel(R) V			
Microsoft			
		⊿ [[	Install

#### 🖋 USB Driver Tool

- 🗆 🛛

te following USB devices were found in your system:		Filter:	
Device Name	Vendor ID	Device ID	Interface
Olimex OpenOCD JTAG ARM-USB-TINY-H (WinUSB)	15BA	002A	00
🖋 USB 輸入裝置	046D	C52B	02
🖉 USB 輸入裝置	046D	C52B	01
🖋 Logitech USB Input Device	046D	C52B	00
✔ USB 視訊裝置	OBDA	5539	00
\lambda Olimex OpenOCD JTAG ARM-USB-TINY-H	15BA	002A	01 5
🖋 USB Composite Device	OBDA	5539	
🖋 USB Composite Device	15BA	002A	
🖋 USB Composite Device	046D	C52B	
🖋 USB Composite Device	0A5C	5842	
🖋 Dell ControlVault w/o Fingerprint Sensor	0A5C	5842	00
	8087	OAAA	
🖋 Microsoft Usbccid Smartcard Reader (WUDF)	0A5C	5842	01
			~
			6
Sign auto-generated drivers with a temporary auto-generate	l certificate	Change driver t	vpe Clos

🖋 USB Driver Tool

Device Name	Driver Selection	2	×
Olimex O	Please select a driver you want t	o install for this device:	>e
● USB 輸入	Driver	Vendor	
● USB 輸入	FTDI CDM	(universal driver)	
/ Logitech	ST-Link Driver	(universal driver)	
● USB 視評	Libush - WinHSB	(universal driver)	
Olimex O	WinUSB	(universal driver) 7	
🖉 USB Con			
/ Dell Cont			
🖋 Intel(R) V			-
🖋 Microsoft			
		8 Install	

e following USB devices were found in your system:		Filt	·•· [
Device Name	Vendor ID	Device ID	Interface
Olimex OpenOCD JTAG ARM-USB-TINY-H (WinUSB)	15BA	002A	00
✔ USB 輸入裝置	046D	C52B	02
✔ USB 輸入装置	046D	C52B	01
🖋 Logitech USB Input Device	046D	C52B	00
🖋 USB 視訊裝置	OBDA	5539	00
Olimex OpenOCD JTAG ARM-USB-TINY-H (WinUSB)	15BA	002A	01
🖋 USB Composite Device	OBDA	5539	
🖋 USB Composite Device	15BA	002A	
🖋 USB Composite Device	046D	C52B	
🖋 USB Composite Device	0A5C	5842	
🖋 Dell ControlVault w/o Fingerprint Sensor	0A5C	5842	00
Intel(R) Wireless Bluetooth(R)	8087	OAAA	
<ul> <li>Microsoft Usbccid Smartcard Reader (WUDF)</li> </ul>	0A5C	5842	01
			9

>		記憶體技術裝置
>		虑理器
>		軟體元件
>	•	軟體裝置
>	Ŷ	通用序列匯流排控制器
~	Ψ	迪用序列匯流排裝置
L		Olimex OpenOCD JTAG ARM-USB-TINY-H
		Olimex OpenOCD JTAG ARM-USB-TINY-H
>	<u></u>	連接埠 (COM 和 LPT)
>	•	智慧卡讀卡機
>	$\square$	割體
>		滑鼠及其他指標裝置
>	١	電池
	Ē	黄照

1.1.6 Obtain the FW compressed file of the machine to be burned, After unzipping execute the inside of the folder NVidia\_GSync\_R4\_FwUpdateTool.exe

x25_AUO_M250HAN03_0_36_HW_2001_DP5_15_FW_LIB_7_101_OSD0_8_WW						
名称 ^	修改日期	类型	大小			
	2020/10/22 8:55	文件夹				
ACER_X25_MSP430G2744_NAVIKEY_F	2020/9/4 17:47	文本文档	71 KB			
E3812_muc_0_67.bin	2020/8/27 7:48	BIN 文件	38 KB			
max10 fpga_rev25_bw0.10_sw3.23.pof	2020/9/18 11:40	POF 文件	315 KB			
🔤 NVidia_GSync_R4_FwUpdateTool	2020/9/4 10:26	应用程序	15,725 KB			
P3813_puc_0_102	2020/10/20 2:50	文本文档	25 KB			
README	2020/9/2 16:59	文本文档	1 KB			

[Factory Mode] NVidia G-Sync R4 Firmware Update Tool

Upda	ate F, 請確		RD ksum是否與	Y 發行資訊相同
cpu0:		0%	CRC16: 77D5	
cpu1:		0%	CRC16: 2E4B	
gpx:		0%	CRC16: ØEA8	
panel:		0%	CRC16: E60B	
Time: 00:00				

To verify Checksum, press "Update F/W" to burn it

[Factory Mode] NVidia G-Sync R	4 Firmware Update Tool		
Update	F/W	• • •	
cpu0:	100%	CRC16: 77D5	.::
cpu1:	100%	CRC16: 2E4B	.::
gpx:	27%	CRC16: 0EA8	
panel:	0%	CRC16: E60B	.::
Time: 02:39			.::

Update	F/W	PAS	S
cpu0:	100%	CRC16: 77D5	
cpu1:	100%	CRC16: 2E4B	
gpx:	100%	CRC16: ØEA8	
panel:	100%	CRC16: E60B	
Time: 08:22			

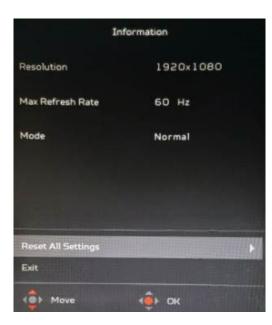
#### Matters needing attention Please disconnect the interface after the power is cut off, otherwise the TOOL will be damaged.

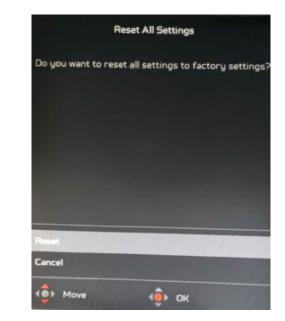
1.1.7 After writing need to do factory reset and enter factory menu to check the FW version. Press the key button 332211 to enter the factory menu;



(1) Restart the monitor after open factory menu. And then open the user menu.

	Mode - Sta	endard			
Picture	Brightness	_		65	
😵 Color	Contrast	-		50	
Audio	Blue Light	4	Off	•	
🙉 Gaming	Dark Boost	•	Off	•	6 -
oso	Adaptive Contrast	•	Off	•	<b>•</b>
System					- 22
					×-
( Move	<∳> Enter				





### OSD FW Version:

050 Release Date:	20201104
OSD FW Model Name:	X25
OSD Version :	0.7(WW)
	0.1
eUC Key FW Version;	
pUC FW Version:	0.102
mUC FW Version:	0.67
HW Revision:	2001
DP Version :	5.15
NV FW Version :	7.101
GFX Version	03
Panel Profile Name:	AUO_M250HAN03_1edp
Panel Profile Version :	036
Panel Using Time:	1 hours:45 mins
G-Sunc Core Temp:	40 C
DPTX Link Errors Count:	0
Audio Info	D / Undefined / Undefined
	1030 [29]
AMS Color Sensor CCT :	
Concerned a Parket of Cardy Manhak TAbalant Con-	6919
AMS Color Sensor Row Data	R:00100 G:00099 B:00099
and the second	C:00237 AGain:00064 ATime:27800
maxCLL/MaxML:	C:00237 AGain:00064 ATime:27800 0/0 Nits
maxCLL/MaxML: HDCP Status:	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive
maxCLL/MaxML: HDCP Status:	C:00237 AGain:00064 ATime:27800 0/0 Nits
maxCLL/MaxML: HDCP Status: Lumic RF Board Status:	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 : 93 Green:101 Blue:115
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Cool RGB Red	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Cool RGB Red Burnin Align No	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 : 93 Green:101 Blue:115
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Cool RGB Red Burnin Align No Auto HDR MaxCL	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 : 93 Green:101 Blue:115 : 85 Green:101 Blue:134 Auto
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Cool RGB Red Cool RGB Red Burnin Align No Auto HDR MaxCL MaxCL Default	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 : 93 Green:101 Blue:115 : 85 Green:101 Blue:134
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Cool RGB Red Burnin Align No Auto HDR MaxCL MaxCL Default Unsupported Timing Retrain	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 :93 Green:101 Blue:115 :85 Green:101 Blue:134 Auto 4000 Yes
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Cool RGB Red Burnin Align No Auto HDR MaxCL MaxCL Default Unsupported Timing Retrain AMS Light Sensor Min Value	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 : 93 Green:101 Blue:115 : 85 Green:101 Blue:134 Auto 4000 Yes 1000
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Lool RGB Red Burnin Align No Auto HDR MaxCL MaxCL Default Unsupported Timing Retrain AMS Light Sensor Min Valua AMS Light Sensor Max Valua	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 : 93 Green:101 Blue:115 : 85 Green:101 Blue:134 Auto 4000 Yes 1000
maxCLL/MaxML: HDCP Status: Lumic RF Board Status: Burn In Yes OD Valu Brightness Valu Warm RGB Red Normal RGB Red Cool RGB Red Burnin Align No Auto HDR MaxCL MaxCL Default Unsupported Timing Retrain AMS Light Sensor Min Value	C:00237 AGain:00064 ATime:27800 0/0 Nits Inactive Lighting: 1 7 2 5 84 2 ProxiSensor: 317 e:100 e:315 :100 Green:100 Blue:100 :93 Green:101 Blue:115 :85 Green:101 Blue:134 Auto 4000 Yes 1000

# 4. FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of ACER B248Y Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your ACER office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional ACER office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional ACER office on how to return it.

Picture	Description	TPV Part No.	Part No.
	MAIN BOARD	CBPCPGQC1Q1	NA
	G-SYNC BOARD	317GAAMB326NVI	NA
	LIGHT SENSOR BOARD	LSPCPQA1	NA
	OPTION BOARD	PTPCPQC3	NA
	ADAPTER 19V 120W DELTA	380GLA19665DE0	NA
	USB BOARD	USBPQC0	55.TK5M2.006
	KEY BOARD	KEPCPQB4	NA

	LED BOARD	LEPCLQA3	55.TK5M2.003
	LED MODULE PCDMX27R1	369GAADW031HTK	55.TK5M2.008
	LED MODULE PCDMX25M1	369GAADW032HTK	NA
L.	LED MODULE PCDMX27L1	369GAADW033HTK	55.TK5M2.009
	PANEL	750GBU25030UAJN000	NA
	PS SP 2.5W 63x22x20 BOX W50 94V1 4 R	378G0025689CLA	23.TCCM2.001
	PS SP 2.5W 63x22x20 BOX W50 94V1 4 R	378G0025689CRA	23.TCCM2.002
	HDMI2.0 CABLE 1800	389G1848GAAFHH2000	50.TDFM2.001

DP CABLE 1800	389G1878CAAFDD1400	NA
USB 3.0 CABLE 1800	389G0175M02ALG	50.T28M2.003
AC POWER CORD 1800 for China C5	089G614A18N-IS	27.LNY0B.004
FFC CABLE 10PIN TO 10PIN 500(MB TO IR)	395G176A0107100000	NA
FFC CABLE 15Pin to 15Pin 220 0.5mm(MB TO OPTION BOARD)	395G176A0155040000	NA
FFC CABLE 30Pin to 30Pin 80 0.5mm(MB TO USB)	395G176M0305790000	NA
FFC CABLE 6pin to 6 pin 570 0.5mm(IR TO OPTION BOARD)	395G176X0066760000	NA
HARNESS 7Pin to 6Pin 280(MB TO PANEL LB)	395GD20007WM004000	NA

HARNESS 8pin to 4pin+4 pin 250/650(MB TO LED)	395GH20008DM057000	NA
HARNESS 6Pin to 6Pin 620(MB TO KEY)	395GK20006DM048000	NA
COAXIAL CABLE 51Pin to 51Pin 400(MB TO PANEL)	395GLM5151D606COA X	NA
HARNESS 4pin to 2pin+2pin 620 / 270(MB TO SPK)	395GS20004WM153000	NA
BEZEL ASSY	705GQZCS034862	NA
MIDDLE_FRAME	Q34G8549AEM06S0100	NA
REAR_COVER	Q34G9919AEM01L0130	NA

KEY_FUNCTION	Q33G1800AEM01L0100	NA
stand-base ass'y	Q37G101101700000FH	NA
MAINFRAME	Q15G468410110100YM	NA

# 5. Trouble shooting instructions

Before sending your LCD monitor for servicing, please check the troubleshooting list below to see if you can self-diagnose the problem.

# HDMI/DP Mode (Optional)

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD menu, adjust brightness and contrast to maximum or reset to their default setting.
	Off	Check the power switch.
		Check if the AC power cord is properly connected to the monitor.
	Amber	Check if the video signal cable is properly connected at the back of monitor.
		Check if the computer system is switched on and in power saving/standby mode.
		If OSD Lock is On, the LED status set Amber.

**Note:** Acer monitor is purposed for video and visual display of information obtained from electronic devices.