User's Guide of M.NT68676.2A Controller Board

V1.1

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Content

Chapter 1Cable connection	2
Chapter 2The LCD Panel Voltage Jumper	6
Chapter 3How to enter into factory mode	8
Chapter 4Upgrading the M.NT68676.2A firmware	16
Chapter 5Troubleshooting	26



Chapter 1--Cable connection







Please check the inserting condition of each foot. If some foot is not fully inserted (as shown in the figure below), please use tweezers to press the exposure to the top of the foot, let all feet be inserted into well.











Chapter 2--The LCD Panel Voltage Jumper

The board voltage and the LCD voltage are 2 different parameters. The board can be worked from +5V to +12V. The LCD voltage only can be supplied by the board's jumper with only +3.3V +5.0V +12.0V. Most of LCD panel works at +3.3V. Normally, the board's jumper has been jumped to +3.3V and please don't jump it again. Or else, the LCD will be damaged at +5.0V/+12.0V.









Chapter 3--How to enter into factory mode

































Chapter 4--Upgrading the M.NT68676.2A firmware

Tools:

VGA Cable—1pcs Parallel Programmer--1pcs Parallel Cable—1pcs

The steps:

Please confirm your PC has been installed the Parallel port driver program. If it isn't installed, please install it first.

Step 1. Installed the Parallel port driver program on the PC.









Step 2. Connect the cables as follows.













Step 3. Double click the Easy WriterV2011.0831_W7.exe file to start software driver installation. Then, the setup program will guide user to complete software installation.



5 Installing EasyWriter_W7	×
Destination folder Select a destination folder where EasyWriter_W7 will be installed.	
Setup will install files in the following folder. If you would like to install EasyWriter_W7 into a different folder then click Browse and select another folder. Destination folder	
D:\Program Files\EasyWriter_W7	
Space required: 3.46MB Space available: 27.45GB I Launch EasyWriter_W7 now	
- CreateInstall Free <u>N</u> ext > <u>C</u> ancel	
5 Installing EasyWriter_W7	×



Step 4. Then run EasyWriter_V2010 software, a new dialog popped up as below.

Press Auto detect button, and select OROWA .



💡 Novatek Easy¥r	iter 2011.0816 [₩I]	17] [[1 7]	
<u>File Run Optio</u>	n <u>M</u> ode <u>E</u> DID	Skins	
LPT IIC Speed (- Faster Slower-> () IIC Speed : () Auto detect	LPT Port configure LPT Port Offset 378 ISP Jig type Selection NVT Type I (default) NVT Type II CHIMEI		
	 ↓ LG MYSON ROWA SAMSUNG INNOLUX USER DEFINE NVT EasyUSB Test Port(Reserved) FTDI 	Confirm Ch	ange
Step 5. Then press Confirm	^{Change} , a new dial nd finish the softv	log popped up as vare configuration	below. Press the lef
Information	100	×	
Port seting OK ,Close co 确定	nfiguration window 取消	now?	

Step 6. Press Option, remove the selection of FE2P Mode Enable



PNFile	ovatek E <u>R</u> un	asy V rite Option	r 2011. Mode	0816 [♥I <u>E</u> DID	. N7] Skins	III	×
Eile	Run Auto Load File CEasyWr tion file (e be : Easy	Option Setu WP P FE2P FE2P SPI Disa Disa Send Enab	Mode Jig type p ISP tool PE2P Opti in Select Mode Enab Block Sel Block Prot ble FE2P a -MISC Setu ble Verify MX2026 CM le Auto FF	EDID Option on >> ole Lect >> tect after area Overla rp y Data !!! MD S2P Detect.	<u>S</u> kins ISP OFF up Warning!	Niew Read SafeGFE SafeGDin	Hex 1 2P ect
ISP OFF	No Fil	e loaded				 Empt	y

Step 7. Press **Load File**, a new dialog popped up as below. Select the bin file on the PC.





8	Novatek	EasyVriter	2011.08	16 [WIN	7]	111	
File	Run	<u>O</u> ption	Mode	EDID	Skins		
-	a ut			0			
	מ או					,	
查	戈范围(I):	🚞 Bin			•	+ 🖻 📸 📰 -	9
	近的文档 反面 か文档 の文档 の文档 し、 和 に 和 、 和 、 、 、 、 、 、 、 、 、 、 、 、 、	ZHIFEI_LTM2	01. hex 70HT03_NT66 70HT03_NT66	3676_7KEY_	ENG_R8427_C Kor_R8428_C	0x22&0_FHJ_110830 0x22&4_FHJ_110831	. hex . hex
4		文件名(20):	INL_MT190	DAWO1. hex		•	打开(0)
		文件类型 (I):	IntelHex			•	

Auto Step 8. Press to burn bin file to the driver board. Novatek EasyWriter 2011.0816 [WIN7] e m File Run Option Mode EDID Skins Auto ISP ON View Hex Auto Progress(isp_on->erase->program->isp_off) Load File Program Read îilli Novatek EasyWriter V2011.0520 Information file (ezwriter.ini) V1.7 Port Type : LPT port Load File @(20:28:00) - F:\WORK\Project\NT68676 TRUNK\code\Bin\ZHIFEI_LTM270HT03_NT68676_7KEY_E x22A0_FHJ_110830.hex <2011-08-30 15:50:03> <u>SafeGDirect</u> HexFile CheckSum:22A0 Fill (255k) Check Sum:22A0 ÷ ISP OFF F:\WORK\Project\NT68676\TRUNK\code\Bin\ZHIFEI~1.HEX\..\ZHIFE.256KBytes



OK

图 6

🔒 🛛 Nov	atek Easy	¶riter 2011.0	D816 [WIN7]	7	
File	<u>Run O</u> p	tion <u>M</u> ode	<u>E</u> DID <u>S</u> k	ins	
huA 🔞	to	🔇 ISP ON	ISF		View Hex
D Los	ad File	Erase	Pro	gram 🛛 🚺	Read
ReLoad Fi \TRUNK\c x22A0_FH ISP ON SPI Flash SPI Flash Chip erase Programin ISP OFF. Used time	ile @(20:3 ode\Bin\Z J_110830.1 Type : PM Status Fla Block Prot e OK. ig Success : 20secon End	1:34) - F:\WORI HIFEI_LTM2701 hex <2011-08-3 C Pm25LV020A g = 1C tect Disabled. 3. ds	<\Project\NT6 HT03_NT686 0 15:50:03> \ 256KB	8676 76_7KEY_ENG Sa	_R8427_0
ISP OFF	F:\WORK\Pr	oject\NT68676\TRU	NK\code\Bin\ZH	FEI~1. HEX\\ZHI	FE 256KBytes
press	Erase	, then press	Auto a	nd re-burn the bi	n file to the board.
Error	ter ISP Fail				

Step 9. A new dialog popped up as below, the total process finished.



Chapter 5--Troubleshooting

Question 1 – The power adapter requirement of the board.

	Requirement	12V DC/12V(built)/12V,5V(built in)/12V,5V,5VSB(built in)			
POWER	To Panel	3.3V/5V/12V			
	Management	Standby Power Consumption < 0.5W(Board Only)			

The board voltage and the LCD voltage are 2 different parameters.

The board can be worked from +5V to +12V with 3.0A current.

Question 2 – The LCD panel voltage

The LCD voltage only can be supplied by the board's jumper with only +3.3V + 5.0V + 12.0V. Most of LCD panel works at +3.3V. Normally, the board's jumper has been jumped to +3.3V and please don't jump it again. Or else, the LCD will be damaged at +5.0V/+12.0V.

Question 3 – How to confirm all the connections are in good condition.

First of all, please do not input any signal cable.

Then power on the board via keyboard power ON/OFF button.

The following image can be shown on the LCD. That means the board kits and LCD are in good condition. Then you can start use it via plugging in the signal cable.



If the "ATTENTION NO SIGNAL" isn't shown on the LCD, there should be problems and please don't connect the signal cable to the board in order to save time. Please check the board power, the LVDS cable connection to board and to the LCD.