MIOe-230 User Guide

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Assemble and configuration SOP

1. Choose the panel resolution and drive voltage by adjustment the *SW1* and *J1* as jumper setting document.



- 2. Assemble *MIOe-230* and *MIO-5270*.
- 3. Connect LVDS data signal cable to CN4, backlight cable to CN3.



4. Check the setting in *CHIPSET*→*Display Config Select*→*HDMI*→*DP*.



 If all the setting is the same as above, reboot the system to check does VGA and LVDS have display at the same time. And check the resolution is match with SW1 setting.



 After entering the Windows, double click the ATI icon on toolbar to lanuch *Catalyst[™] Control Center*, and go with basic mode.



7. Following the instruction of basic setting to adjust the panel configuration.

an Catalyst™ Control Center	- Basic		
AMD Catalyst	Welcome to the Catalyst''' Contr What would you like to use?	ol Center	
	 Basic [Easy Setup Wizards and Que Provides both step-by-step assistance and display setup, and other common tasks. 	uick Settings] d Quick Settings for	changing your
	C Advanced Allows you to configure all of the many av product.	vailable settings of yo	our AMD graphics
	Don't show this page again. You can choose between "Basic" [Ea time.	asy and Quick] or "A	dvanced'' at any
	Click Next to continue		
		<u> </u>	<u>N</u> ext >

8. Type configuration name as customize and click Go.

I Catalyst™ Control Center - Basic		
What Would You Like to Do? Select an Easy Setup Wizard or Quick Settings, then click Go.		
Easy Setup Wizards Quick Settings Information Center		
Click on the Go button to start the Wizard.		
This Wizard will take you through all the steps to set up your display configur preferences. Up to 5 steps may be involved.	ation to your own	
	l	<u>G</u> o>
Advanced	< <u>B</u> ack	<u>E</u> xit

9. Choose the display device as attached.

An Catalyst™ Control Center - Basic		×
Available Display Devices You can show your computer desktop on one or more displays at t	he same time.	a la
The following display devices are connected to your ATI graphic Which would you like to use? Choose Main Display: © Digital Flat Panel	s product. Choose Second Display:	
CH7511B)	(CH7511B)	
	C None	
	< <u>B</u> ack <u>N</u> ext >	

10. Choose the desktop mode as application requirement.

an Catalyst™ Control C	ienter - Basic		
Desktop Mode Selectio	on		Ì
The desktop mode selection	n will determine how the computer desktop is shown on you	ur displays.	
Select a desktop mode:			
31 11	C Extended Desktop		
	The desktop is extended to your second display. for each display. This is useful when you want to computer with more room for multiple windows.	Settings can be s watch video, or w	et independently vork on your
	Clone (Current Mode)		
	The same desktop image is shown on both displa presentations.	ays. This is useful	when giving
11 A Marca	O Horizontal Stretch		
	One large desktop is stretched across two display Settings are the same for both displays.	ys as if they were	a single display.
	Let me select how video playback will appear on the	e second display	
Start Over		< <u>B</u> ack	<u>N</u> ext >

11. Select the resolution as application requirement and click finish to complete the configuration.

📶 Catalyst™ Control Center - B	lasic		\mathbf{X}
Display Settings for Desktop Vie The recommended settings for desktop	wing viewing have been pre-selected.		
Accept or change the desktop apply your settings and return I To adjust other display settings	area (display resolution) that will be used b to the Easy Setup / Quick Settings page. s, click the Advanced button on the Easy S	oy both of your display Setup / Quick Setting	s, then click Finish to s page.
Main: CH7511B	Clone: Defa	ault Monitor	
	Desktop Area: 1024 x 768 Refresh Rate: 60 Hz Color Quality: High		
Start Over		< <u>B</u> ack	<u> </u>

Jumper setting

J1 Panel Voltage Sel

SW1 Panel type Sel

J1	Panel Voltage Sel
Part Number	1653005261
Footprint	HD_5x2P_79
Description	PIN HEADER 5x2P 2.0mm 180D(M) SMD 21N22050
Setting	Function
(1-3)*	+3.3V
(3-5)	+5V
(3-4)	+12V
Setting	Function

(9-10)*	Level VBR
(NL)	PWM VBR



Home

SW1	Panel type Sel	
Part Number	160000402	
Footprint	SW_4x2P_50_260x315	

Description DIP SW SMD 8P SPST P=1.27mm W=5.4mm KHS42E

4	3	2	1	
on	on	on	on	G0 / 1.(800x480/LVDS/18bit) /WAIT , Chrontel under help
on	on	on	off	G1 / 2.(640X480/LVDS/18bits) /WAIT , no inverter to test
on	on	off	On	G2 / 3.800x600 (18bit) /DE
on	on	off	Off	G3 / 4.(1024X600/LVDS/18bits) /DE ,CK-54.2M
on	off	on	On	G4 / 5.(1024x768/LVDS/18bit) /DE
on	off	on	Off	G5 / 6.(1280X800/LVDS/18bits) /DE
on	off	off	On	G6 / 7.(1280x1024/LVDS/48bit) /DE , CK-89M
on	off	off	Off	G7 / 8.(1366X768/LVDS/24bits) /DE , CK-80M
off	on	on	On	G8 / 9.(1440x900/LVDS/48bit) /DE
off	on	on	Off	G9 / 10.(1600x1200/LVDS/48bit) /DE , CK 162M/HB 380/VB
				423

Connector table

CN3 Inverter Conn

CN4 48 bits LVDS Panel

CN5 USB Conn

CN3	Inverter Conn
Part Number	1655305120
Footprint	WHL5H-2M
Description	WAFER BOX 2.0mm 5P 90D(M) W/LOCK (2001-WR-5-LF)
Pin	Pin Name
1	+12V
2	GND
3	ENABKL
4	VBR
5	+5V



CN4	48 bits LVDS Panel
Part Number	1653920200
Footprint	SPH20X2
Description	*CONN. DF13-40DP-1.25V
Pin	Pin Name
1	+5V or +3.3V
2	+5V or +3.3V
3	GND
4	GND
5	+5V or +3.3V
6	+5V or +3.3V
7	LVDS0_D0-
8	LVDS1_D0-
9	LVDS0_D0+
10	LVDS1_D0+
11	GND
12	GND
13	LVDS0_D1-
14	LVDS1_D1-
15	LVDS0_D1+
16	LVDS1_D1+
17	GND
18	GND
19	LVDS0_D2-
20	LVDS1_D2-
21	LVDS0_D2+
22	LVDS1_D2+
23	GND
24	GND
25	LVDS0_CLK-
26	LVDS1_CLK-



CN4	48 bits LVDS Panel
Part Number	1653920200
Footprint	SPH20X2
Description	*CONN. DF13-40DP-1.25V
Pin	Pin Name
27	LVDS0_CLK+
28	LVDS1_CLK+
29	GND
30	GND
31	NC
32	NC
33	GND
34	GND
35	LVDS0_D3-
36	LVDS1_D3-
37	LVDS0_D3+
38	LVDS1_D3+
39	NC
40	NC



CN5	USB Conn
Part Number	1655003991
Footprint	WF_5x2P_79_BOX_RA_N2_D
Description	
Pin	Pin Name
1	GND_USB
2	N/A
3	GND
4	GND
5	USB0_P+
6	USB1_P+
7	USB0_P-
8	USB0_P+
9	+V5_USB
10	+V5_USB

Update eeprom SOP

 Check the setting in CHIPSET→Display Config Select→HDMI→DP, and ensure LVDS has been set to Disabled



2. The other procedure can refer to **Customize the EEPROM for Chrontel chip on MIO-series & MIOe-series** document from ECG AE. It will update the eeprom on MIOe-230 instead of MIO-5270's.