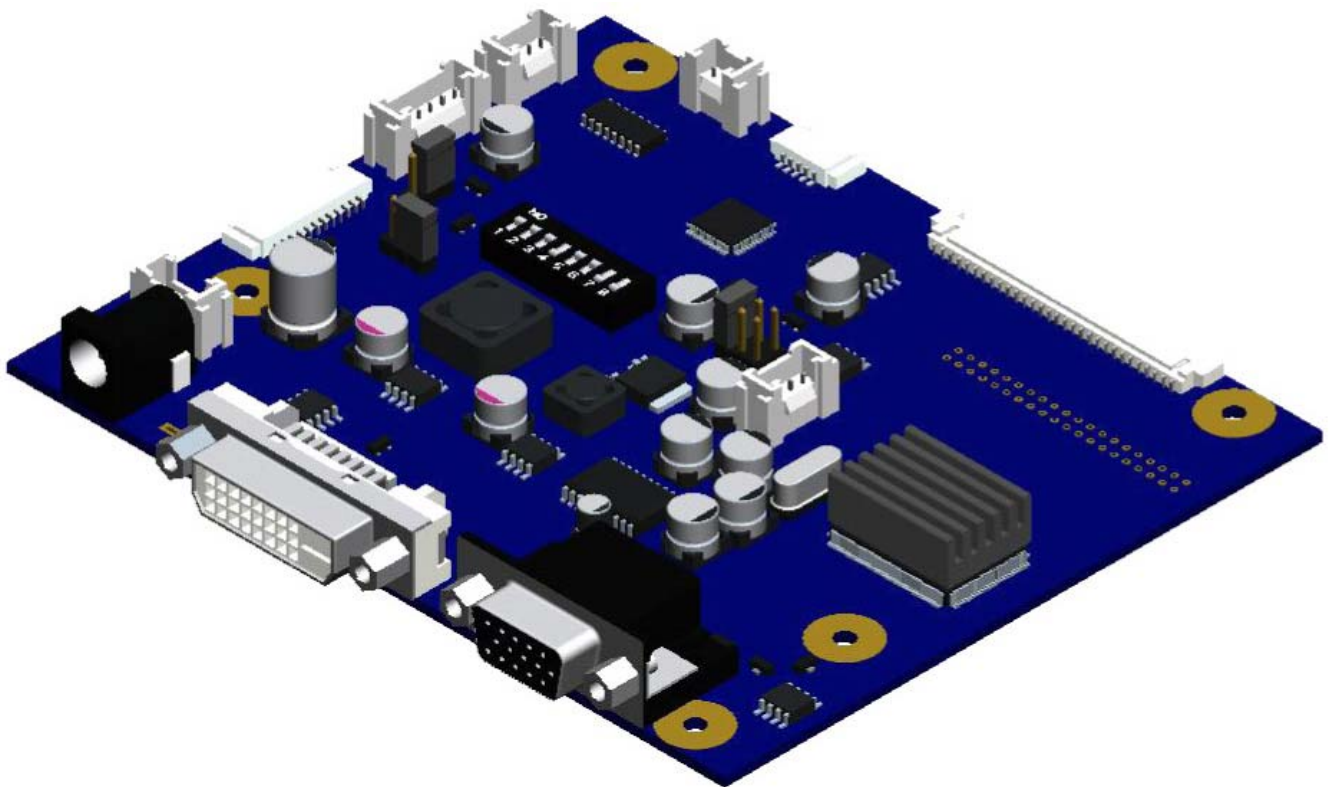


Specification of Control Board *(VGA, DVI & Audio supportable)*



Model Name : **Galaxy 4 (Version 6.0)**

Part No. : **GLX4-AD-xxx....xxx**

Revision History of Galaxy versions

Rev. No.	Rev. date	Revision Details
1.0	Nov.. 2008	<p>Initial Version issued Changed from galaxy1 to Galaxy3 ;</p> <ul style="list-style-type: none"> - RS232 addition (one chip and connector addition on the PCB) – option - Component Video addition (wire type connector addition on the PCB) ; the additional daughter board (YPbPr jack connector / RCA type) requested if customer needs to display the component video. - Scaler Chipset changed from “RTD2533V” to “RTD2533VH” version - MCU changed from Winbond model with cradle type holder on the PCB to SMD type Realtek model (RTD2120L) - Panel selector switch (Dip Switch for LCD model change) ; support for various model of LCD panel by one firmware
2.0	Feb. 2009	Mass Production version
3.0	Nov. 2009	<ul style="list-style-type: none"> - PCB Color change from Green to Dark Blue - Pin map position of 12V DC (4pin wire connection) Connector ; change from GND/GND/12V/12V to 12V/12V/GND/GND (just reverse turns of pin position)
4.0	Sept. 2010	<ul style="list-style-type: none"> - PCB Dimension change ; from 110 x 120 x 14 mm to 120 x 100 x 14 mm The reason why – the vertical size reduction from 120 mm to 100 mm, ➔ in order to meet the vertical size of small size TFT panels such as 7”, 6.5”, etc. - Pin map position, Type of every connectors, OSD Menu design and logic are exactly same as the version 3 (Galaxy 3). - An EPROM for EDID data is added for Analog RGB support. In case of Galaxy 3 version includes the DDC data inside of firmware. However this version 4 (Galaxy 4) has external EPROM. - Backlight control range change The Galaxy3 can support this backlight dimming from “0”V to “3.3”V only. But the version 4 (Galaxy 4) can extend up to “5” V, so it can support more larger range of dimming. - Changing the supportable numbers of TFT LCD panel by one firmware Galaxy3 can support just 32 kinds of panel models by one firmware, but the version 4 (Galaxy4) can support through the extended Selector switch.
5.0	Dec. 2012	- Reinforcement of Hardware : produced by Green C&C Tech
6.0	May. 2013	<ul style="list-style-type: none"> - the extension of dimming range from 0 to 5V in case of Analog control. - the addition and modification of SILK print on the PCB - the addition of manufacturer’s name on the rear surface on PCB.
6.0	Nov. 2015	129 kinds of LCD panels adopted (firmware setting)
6.0	Sept. 2016	142 kinds of LCD panels adopted (firmware setting)

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The information presented in this document may form a part of quotation or contract under the agreement of both parties. Otherwise, this datasheet is subject to change without notice.

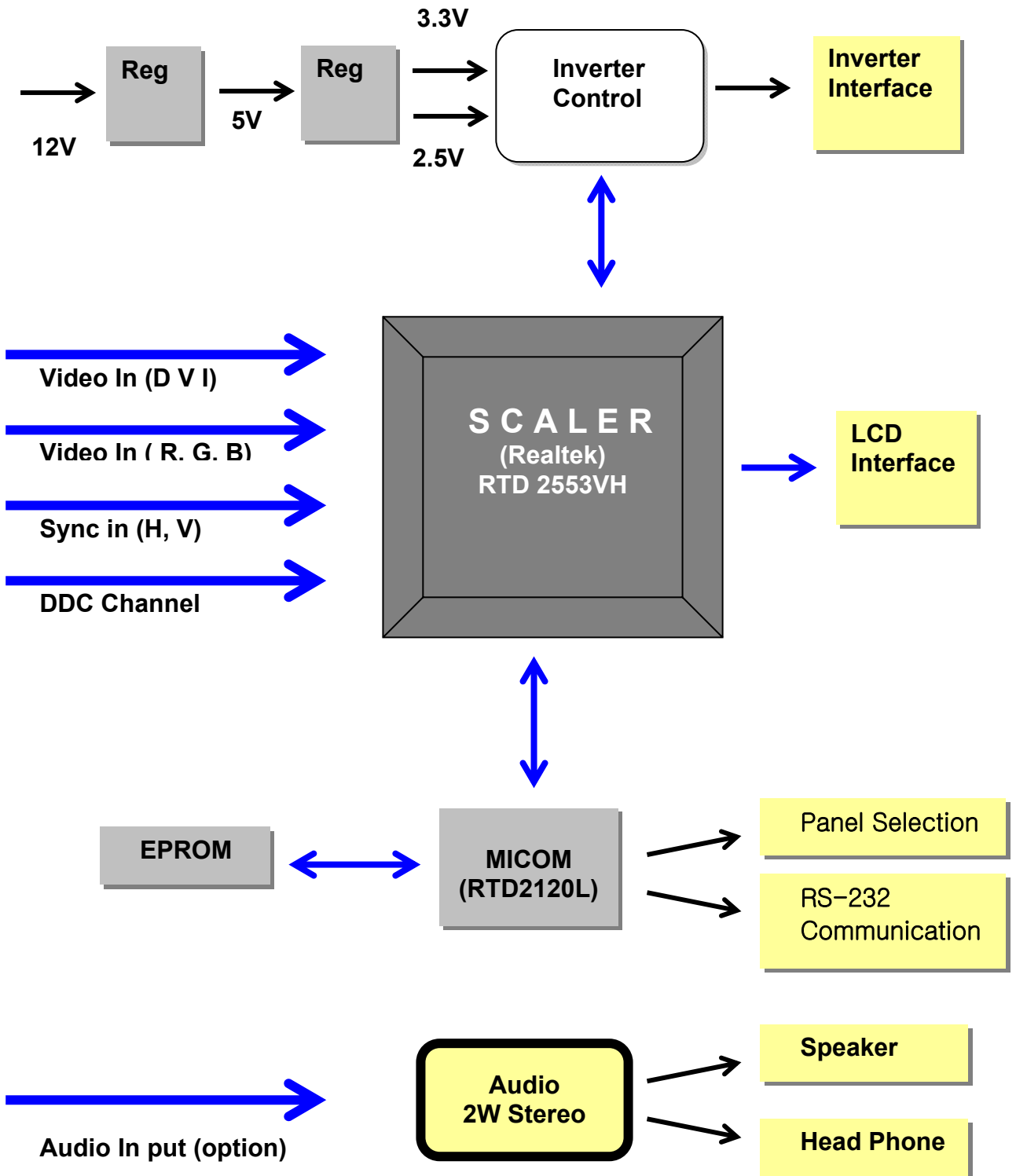
1. Spec Summary

- Golden coated PCB and RoHS compliant product
- Analog RGB (VGA input) and DVI input supportable
- Full CRT multi-sync monitor compatibility:
 - . Multi-sync capability up to WSXGA resolution @ 75Hz, compatible standard DOS, VGA, SVGA, XGA, WXGA, UXGA and WUXGA VESA timing
 - . Expand DOS, VGA and SVGA to full screen display
 - . True color (16.7 M) data processing and display driving
- Single control operated Embedded On-Screen-Display (hereafter "OSD") user interface, OSD Window support bordering/shadow etc.
- . Full control of all relevant display and interface parameters via OSD
- Multi language support (5 Languages)
- Embedded dual DDC Support DDC1, DDC2B and DDC/CI
- Compatible with VESA DPMS power saving modes
- Low power consumption: operating 40W (PC Only), power save 3W
- . +12V / 3.5A DC Single Power: 42 watts AC/DC power adapter recommended
- . Signal Power Level selection by Jumper Switch on the PCB: 3.3V, 5.0V, 12V
- Compact Dimension : 110 x 120 X 14 mm
- Operating temperature : 0 ~ 50°C
- Storage temperature : -20 ~ 70°C
- RS-232 Communication support available
- Various LCD panels supported by one firmware through Panel Selector Switch (Max. 128 kinds of LCD panel)

2. Electrical Parameters

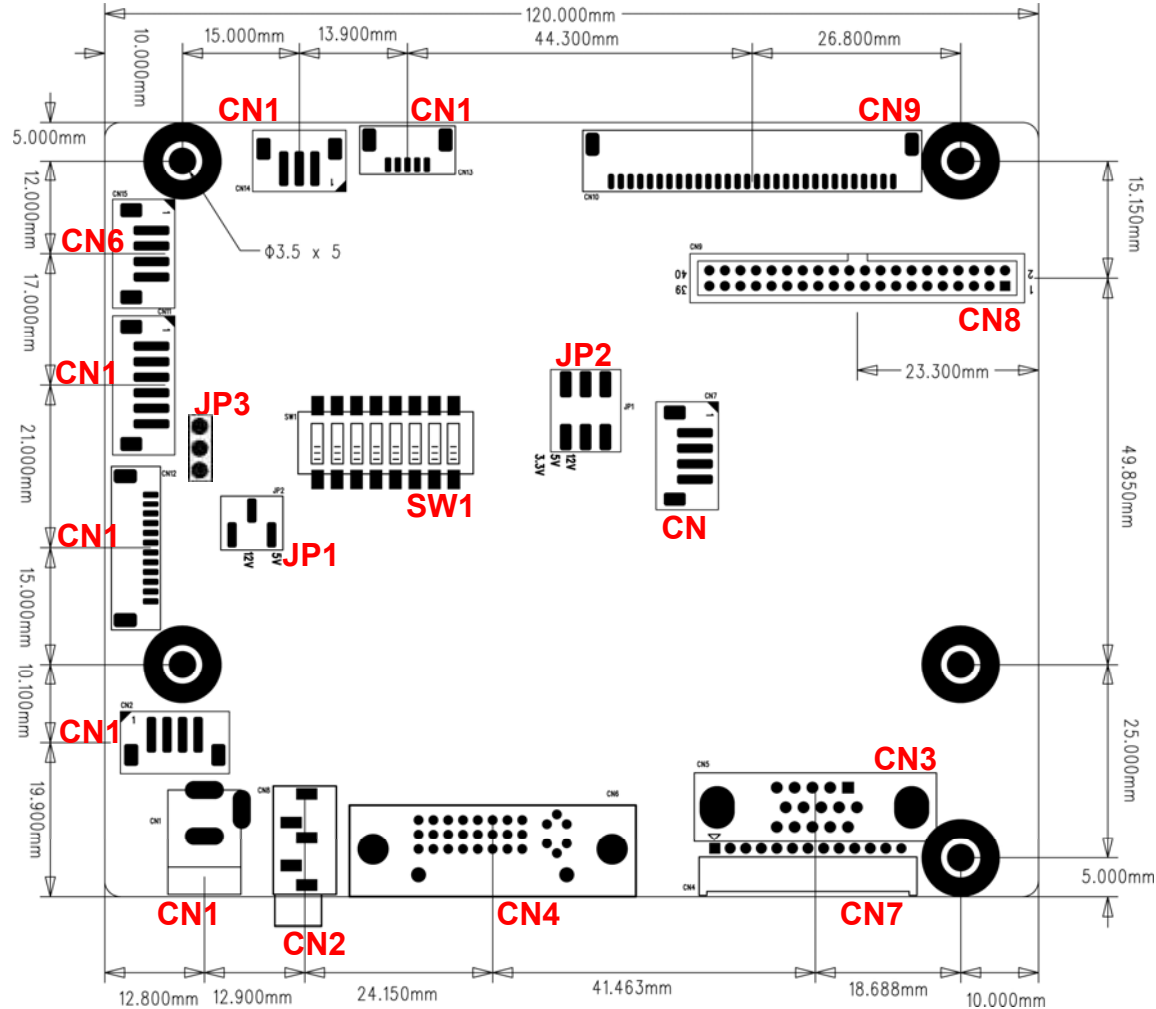
Symbol	Description	Min	Typ	Max	Unit
V _{DD}	+12V DC Power supply	10.8	12	13.2	V
V _{i(RGB)}	Video input signal(w.r.t. GND)	0.5	0.7	1	V _{pp}
f _S	Video sample rate			70	MHz
f _{HS}	Horizontal sync frequency	30		60	KHz
f _{VS}	Vertical sync frequency	56		75	Hz
F _{SIH}	Sync input high level	3.3			V
V _{SIL}	Sync input low level			0.8	VDC
I _{DD1}	Supply current +12V (w/o LCD & inverter)				A
I _{DD2}	(with LCD & inverter)				A
I _{DDPS1}	Supply current (w/o LCD & inverter, power save)				A
I _{DDPS2}	(with LCD & inverter, power save)				A

3. Block Diagram



4. Dimension and Pictures - Main Board

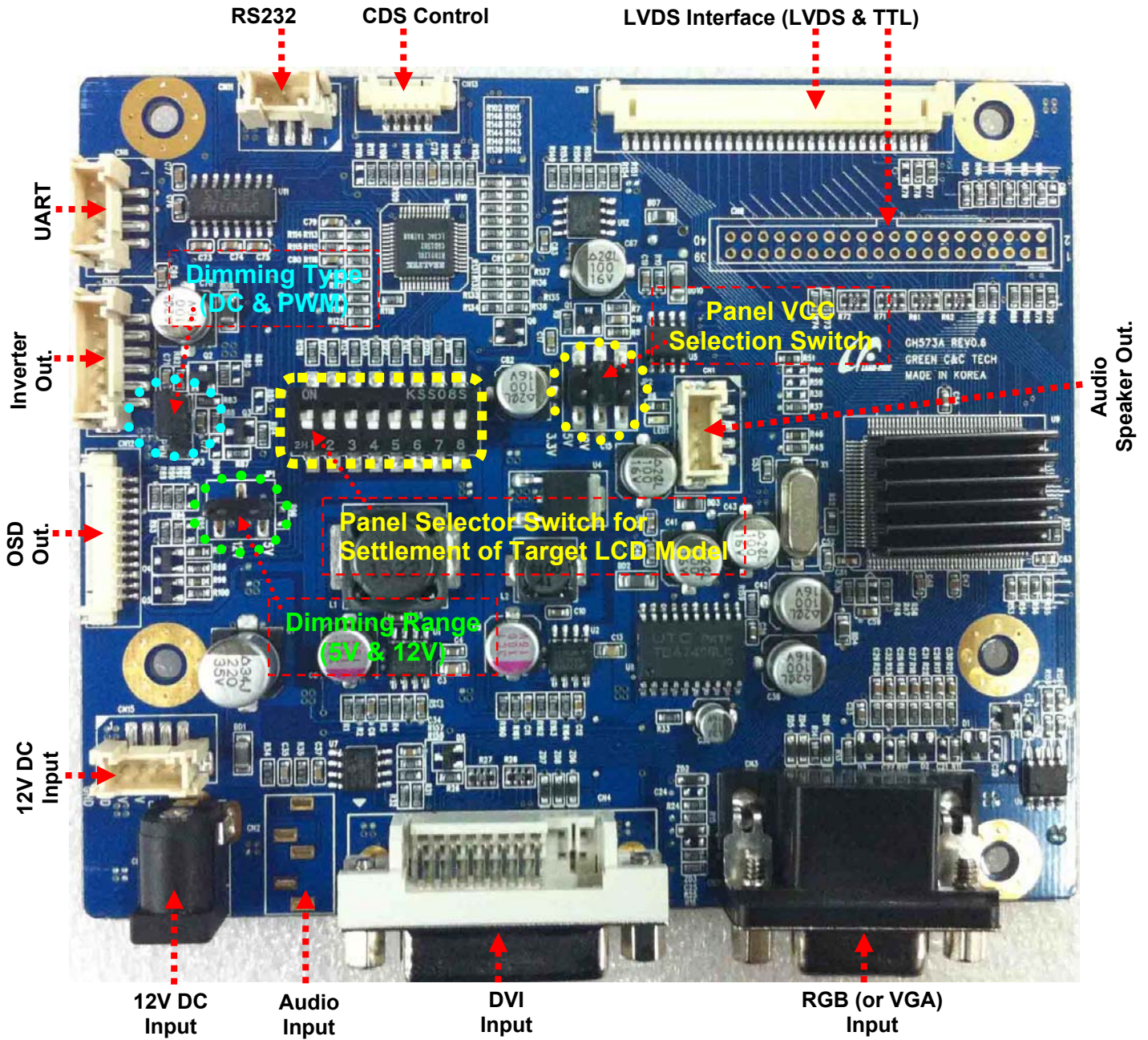
4.1 Main board (120 x 100mm)



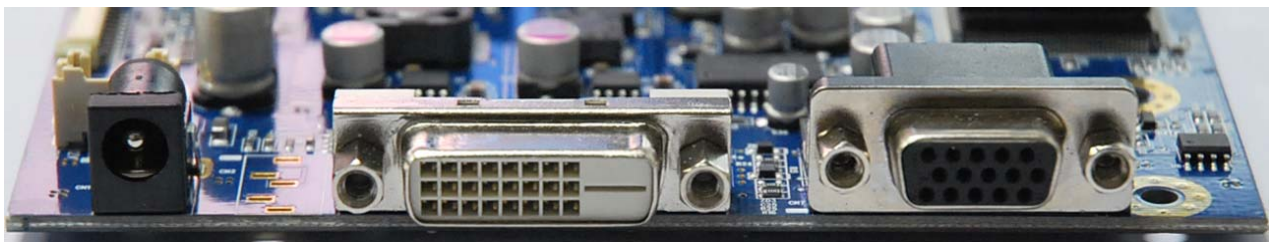
CON	Service
JP1	INV. Dimming Range (5V, 12V)
JP2	Panel VCC (3.3V, 5V, 12V)
JP3	INV. Dimming Type (DC, PWM)
SW1	Panel Selection Switch
CN10	Inverter Output Connector (6pin)
CN12	OSD Output Connector (12pin)
CN15	12V DC Input Power Connector
CN14	12V DC Input Power Jack (2.5 ϕ)
CN2	Audio Input Jack
CN4	DVI Input Jack (24pin DVI-D Type)
CN3	RGB Input Jack (15pin D-SUB)
CN7	RGB Input Connector (13pin)
CN11	RS232 Connector (3pin)
CN6	UART & 5V Touch Control CN (4pin)
CN9	Interface LVDS Output (30pin)
CN8	Interface TTL Output (40pin)
CN13	CDS Control (5pin)
CN1	Audio & Speaker Out. (4pin)

Data Sheet

4.2 Main Board Picture



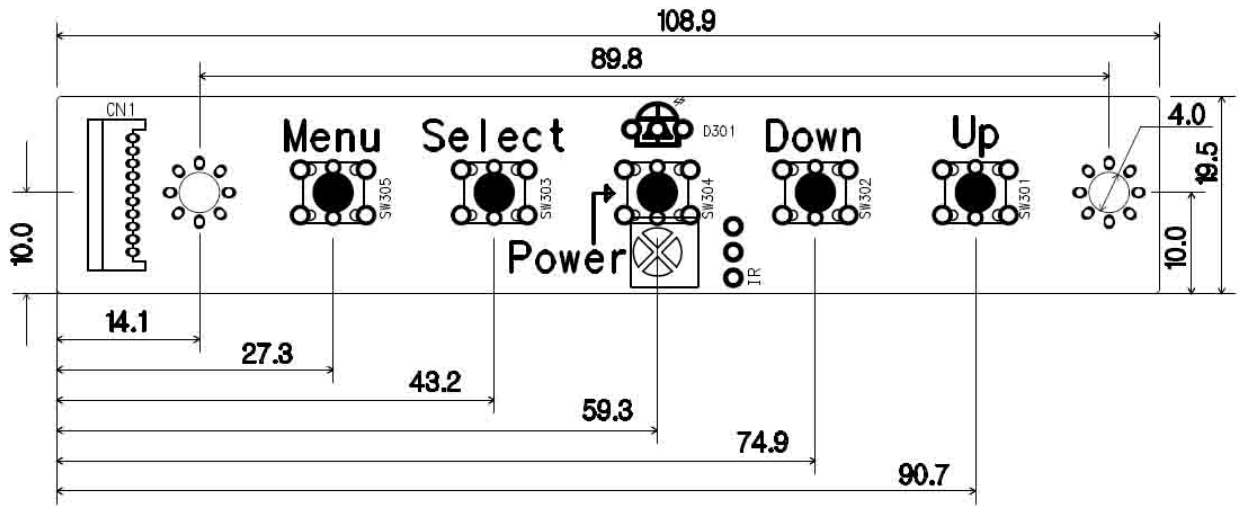
Front View



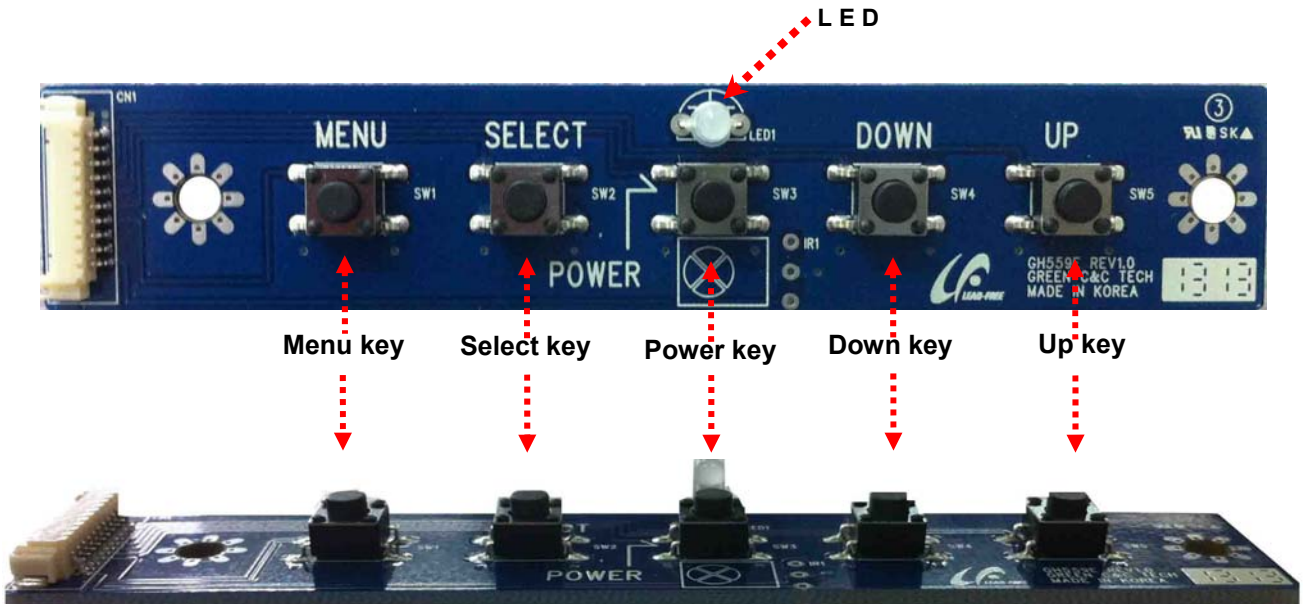
Data Sheet

5. Dimension and Pictures - OSD Board

5.1 5Key OSD Board Type 1 : (108.9 x 19.5 mm)

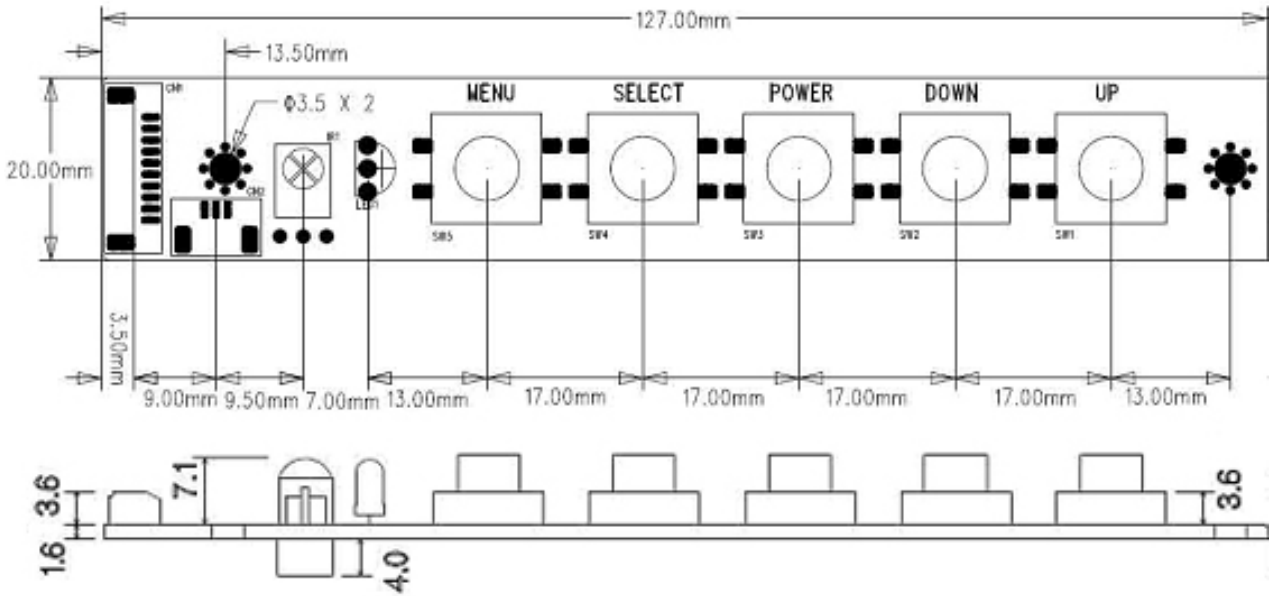


Type1 Standard model for board kit solution

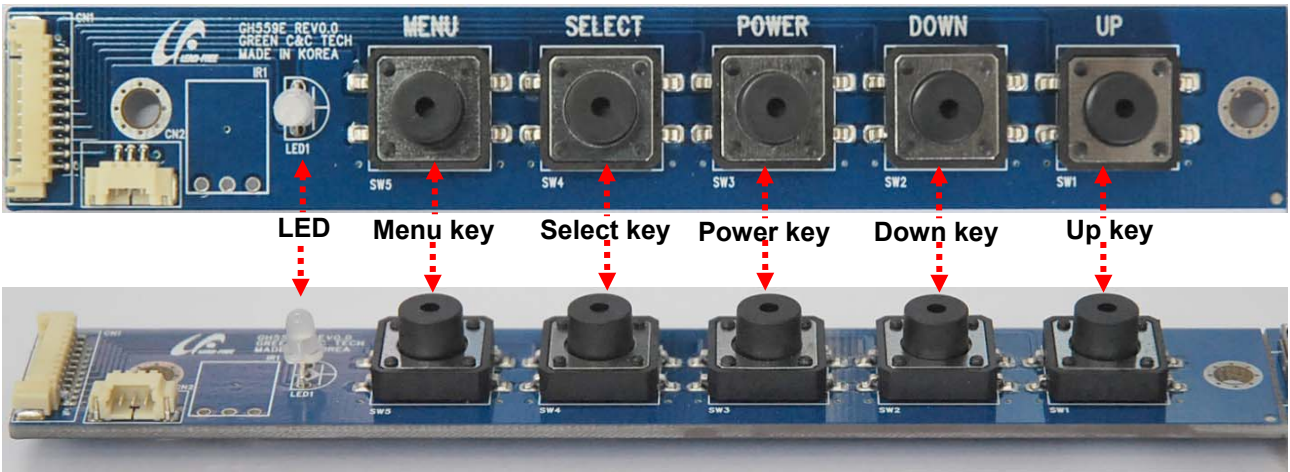


Data Sheet

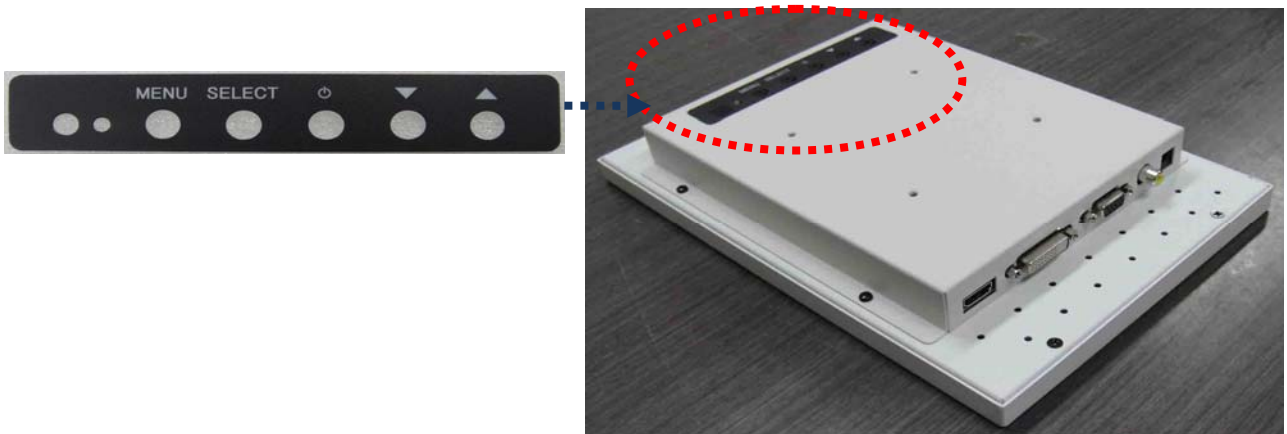
5.2 5Key OSD Board Type 2 : (127.0 x 20.0 mm)



Type2 model for open frame set solution



Laminate Sticker for fine finishing the open frame or complete set (option)



6. Connectors and Pin Information

6.1 Connectors Summary

Service	CN	Maker	Part Number	Description	Mating Housing
LCD Interface LVDS	CN9	Yeon-Ho	12507WR-30	1.25mm, 30p SMD	12507HS-30 (Yeon-Ho)
LCD Interface TTL	CN8	Molex	87331-20,HEAD	2.0mm, 2row 20p, S/T	40pin (HIROSE)
RGB (or VGA) Input Jack	CN3	-	-	2.0mm, 3row 15p R/A	Standard VGA Cable (Male)
RGB (or VGA) Input CN	CN7	Yeon-Ho	SMW200-15	2.0mm, 15p DIP	SMH200-15 (Yeon-Ho)
DVI Input Jack	CN4	-	-	2.0mm, 25p R/A	Standard DVI Cable (Male)
12V DC Input CN	CN15	Yeon-Ho	SMAW200-04	2.0mm, 4p SMD	SMH200-04 (Yeon-Ho)
12V DC Input Jack	CN14	-	PD527A-1111	2.5 \emptyset , 3p Jack	DC Adapter (Barrel Jack)
Inverter Out. CN	CN10	Yeon-Ho	SMAW200-06	2.0mm, 6p SMD	SMH200-06 (Yeon-Ho)
OSD Out. CN	CN12	Yeon-Ho	12505WR-12	1.25mm, 12p SMD	12505HS-12 (Yeon-Ho)
UART & Touch 5V Out.	CN6	Yeon-Ho	SMAW200-04	2.0mm, 4p SMD	SMH200-04 (Yeon-Ho)
RS232 CN	CN11	Yeon-Ho	SMAW200-03	2.0mm, 3p SMD	SMH200-04 (Yeon-Ho)
CDS Control	CN13	Yeon-Ho	12505WR-05	1.25mm, 5p SMD	12505HS-05 (Yeon-Ho)
Audio Input Jack	CN2	SamSung	ST-323-01	1p, R/A	-
Audio Speaker Out.	CN1	Yeon-Ho	SMAW200-04	2.0mm, 4p SMD	SMH200-04 (Yeon-Ho)

6.2 Pin Information Detail

6.2.1 LCD Interface – LVDS (CN9)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	PANEL_VCC	11	TXEC-	21	TXO3-
2	PANEL_VCC	12	TXE2+	22	TXOC+
3	PANEL_VCC	13	TXE2-	23	TXOC-
4	GPIO Option(FLIP)	14	GND	24	GND
5	GPIO Option(MIRR)	15	TXE1+	25	TXO2-
6	GPIO Option(3.3V)	16	TXE1	26	TXO2+
7	GND	17	GND	27	TXO1-
8	TXE3+	18	TXE0+	28	TXO1+
9	TXE3-	19	TXE0-	29	TXO0-
10	TXEC+	20	TXO3+	30	TXO0+

6.2.2 LCD Interface – TTL (CN8)

Pin No.	Function	Pin No.	Function	Pin No.	Function	Pin No.	Function
1	MIRROR	11	BO5	21	GO5	31	RO5
2	DCLKO	12	BO4	22	GO4	32	RO4
3	FLIP	13	GND	23	GND	33	GND
4	DE	14	BO3	24	GO3	34	RO3
5	GND	15	BO2	25	GO2	35	RO2
6	VSO	16	BO1	26	GO1	36	RO1
7	GND	17	BO0	27	GO0	37	RO0
8	HSO	18	GND	28	GND	38	Panel_VCC
9	BO7	19	GO7	29	RO7	39	Panel_VCC
10	BO6	20	GO6	30	RO6	40	5V (option)

6.2.3 RGB (or VGA) Input Jack (CN3)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	Red	6	GND	11	GND
2	Green	7	GND	12	DDC-SDA
3	Blue	8	GND	13	H Sync
4	GND	9	+5V(Optional)	14	V Sync
5	GND	10	CHECK SIGNAL	15	DDC-SCL

6.2.4 RGB (or VGA) Input Connector (CN7)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	H Sync	6	GND	11	DDC-SCL
2	GND	7	Green	12	DDC-SDA
3	V Sync	8	GND	13	CHECK SIGNAL
4	GND	9	Red		
5	Blue	10	GND		

6.2.5 DVI Input Jack (CN4) / DVI-D Type

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	Data2-	9	Data1-	17	Data0-
2	Data2+	10	Data1+	18	Data0+
3	Data2/4 Shield	11	Data1/3 Shield	19	Data0/5 Shield
4	Data4-	12	Data3-	20	Data5-
5	Data4+	13	Data3+	21	Data5+
6	DDC Clock	14	+5V Power	22	Clock Shield
7	DDC data	15	GND(for +5V)	23	Clock+
8	No connect	16	Hot Plug Detect	24	Clock-

6.2.6 Audio Input Jack (CN2)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	GND	3	GND	5	GND
2	AUDIO L In	4	AUDIO R In		

6.2.7 Audio & Speaker Output Connector (CN1)

Pin No.	Function	Pin No.	Function
1	Speaker Out (Right)	3	Speaker Out (Left)
2	Ground	4	Ground

6.2.8 12V DC Input (Jack, CN14)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	DC 12V	2	Ground	3	Ground

6.2.9 12V DC Input (CN15)

Pin No.	Function	Pin No.	Function
1	Ground	3	DC 12V
2	Ground	4	DC 12V

6.2.10 OSD Interface Out. (CN12)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	MENU	5	UP	9	LED2
2	SELECT	6	EXTRA1	10	GND
3	DOWN	7	EXTRA2	11	VDD
4	POWER	8	LED1	12	IR In

6.2.11 Inverter Out. (CN10)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	12V	3	Ground	5	BL On / Off (enable)
2	12V	4	Ground	6	BKLT ADJ

6.2.12 RS232 Interface (CN11)

Pin No.	Function	Pin No.	Function	Pin No.	Function
1	TX	2	RX	3	GND

6.2.13 UART & Touch 5V Control Out. (CN6)

Pin No.	Function	Pin No.	Function
1	Rx(UART)	3	Ground
2	Tx(UART)	4	5V OUT(Touch)

6.2.14 CDS Control (CN13)

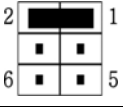
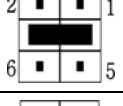
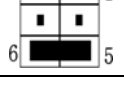
Pin No.	Function	Pin No.	Function	Pin No.	Function
1	Ground	3	3.3V	5	Ground
2	Sensor Signal in	4	N.C		

6.3 Option Jumper Setting



6.3.1 Inverter Dimming Range Selection Jumper (JP1)

Dimming Range	Jumper Setting
5V	 5V
12V	 12V



6.3.2 LCD Panel VCC Selection Jumper (JP2)

Panel VCC	Jumper Setting
+12V	
+5V	
+3.3V	

6.3.3 Inverter Dimming Type Selection Jumper (JP3)

Dimming Type	Jumper Setting
DC	 DC
PWM	 PWM

6.3.4 LCD Panel Selection Switch (SW1)

Selection Type	Setting of the 8th switch
1 ~ 7 (Panel Interface)	
8 (Backlight Interface)	

7. Setup for Operation

The OSD (On Screen Display) provides certain functions to have clear image and others, which consists of 5 buttons as a standard. The control functions defined as follows.

7.1 Functions on the OSD menu

Level - 1	Level - 2	Level - 3	Description
Color	Contrast	Total: 100 steps	Adjusts Contrast of image
	Brightness	Total: 100 steps	Adjusts brightness of image
	Color Adjust	Red /Green/ Blue	Adjusts Color of image
	Color Temp	9300/6500/5800/USER	Adjusts color temperature of image
Image setting	Clock	Total: 100 steps	Adjust the clock pulse of image
	Phase	Total: 63 steps	Adjust the focus of image
	Gamma	0/1/2/3	Adjusts Gamma of image
	Sharpness	0/1/2/3/4	Adjusts sharpness of image
Position	H. Position	Total: 100 steps	Horizontal Screen Position change
	V. Position	Total: 100 steps	Vertical Screen Position change
	Mirror	ON/OFF	Mirror Selection of image (supportable by built-in board of LCD panel)
	Flip	ON/OFF	Flip Selection of image (supportable by built-in board of LCD panel)
OSD Menu	OSD H. Position	Total: 100 steps	Horizontal Screen Position change for OSD Menu
	OSD V. Position	Total: 100 steps	Vertical Screen Position change for OSD Menu
	OSD Timer	Total: 60 steps	Adjust the display time setting of OSD Menu
Language	English		Language Selection of OSD Menu display
	Français	French	
	Deutsch	German	
	Español	Spanish	
	繁體中文	Chinese – 1	
	簡體中文	Chinese – 2	
	日本語	Japanese	
Misc	Signal Source	RGB / DVI	Selects input source
	Volume	Total: 100 steps	Adjusts sound volume
	Mute	ON / OFF	Selects sound On/OFF
	Backlight	Total: 100 steps	Adjusts Back Light of image (Backlight Control)
	Reset		Initializing that memory in store of the user mode
Exit			

Note : The above steps can be specified for example 250 steps of Brightness, Contrast, Backlight level by an optional order

7.2 Definition of Hotkey Functions

OSD Key	Function	OSD Key	Function	OSD Key	Function
Down	Auto Adjust	Up	Auto Color Calibration	Power + Down	Factory Reset

8. Applicable Graphic Mode

The microprocessor measures the H-sync, V-sync and V-sync/H-sync polarity for RGB inputs, and uses this timing information to control all of the display operation to get the proper image on a screen.

This board can detect all VESA standard and MAC Graphic modes shown on the table below and provide more clear and stable image on a screen.

RGB & DVI Input format

Resolution	Pixel Freq.	Horizontal Timing				Vertical Timing			
		Sync Polar	Freq.	Total	Active	Sync Polar	Freq.	Total	Active
	MHz		KHz	Pixel	Pixel		Hz	Line	Line
640x350 @70Hz	25.144 VESA	P	31.430	800	640	N	70.000	449	350
720x400 @70Hz	28.287 VESA	N	31.430	900	720	P	70.000	449	400
640x480 @60Hz	25.175 MAC	N	31.469	800	640	N	59.940	525	480
640x480 @60Hz	25.175 VESA	N	31.469	800	640	N	59.940	525	480
640x480 @67Hz	30.240 MAC	N	35.000	864	640	N	66.667	525	480
640x480 @72Hz	31.500 VESA	N	37.861	832	640	N	72.809	520	480
640x480 @75Hz	31.500 VESA	N	37.500	840	640	N	75.000	500	480
832x624 @75Hz	57.284 MAC	N	49.726	1152	832	N	74.551	667	624
800x600 @56Hz	36.000 VESA	P	35.156	1024	800	P	56.250	625	600
800x600 @60Hz	40.000 VESA	P	37.879	1056	800	P	60.317	628	600
800x600 @72Hz	50.000 VESA	P	48.077	1040	800	P	72.188	666	600
800x600 @75Hz	49.500 VESA	P	46.875	1056	800	P	75.000	625	600
1024x768 @60Hz	65.000 VESA	N	48.363	1344	1024	N	60.005	806	768
1024x768 @60Hz	64.000 MAC	N	48.780	1312	1024	N	60.001	813	768
1024x768 @70Hz	75.000 VESA	N	56.476	1328	1024	N	70.070	806	768
1024x768 @75Hz	80.000 MAC	N	60.241	1328	1024	N	74.927	804	768
1024x768 @75Hz	78.750 VESA	P	60.023	1312	1024	P	75.030	800	768
1280x768 @60Hz	79,500 VESA	P	47,780	1664	1280	P	59,870	798	768
1280x1024 @60Hz	108.000 VESA	P	63.981	1688	1280	P	60.020	1066	1024
1280x1024 @75Hz	135.000 VESA	P	79.976	1688	1280	P	75.025	1066	1024
1360X768 @60Hz	85.00 VESA	P	47.712	1792	1360	P	60.015	795	768
1600x1200 @60Hz	160.875 VESA	N	74.479	2160	1600	P	59.967	1242	1200
1680x1050 @60Hz	147.000 VESA	N	65.160	2256	1680	P	59.944	1087	1050
1920x1080 @60Hz	172.750 VESA	N	67.061	2576	1920	P	59.983	1118	1080
1920X1200@60Hz	193.125 VESA	N	74.508	1292	1920	P	59,990	1242	1200

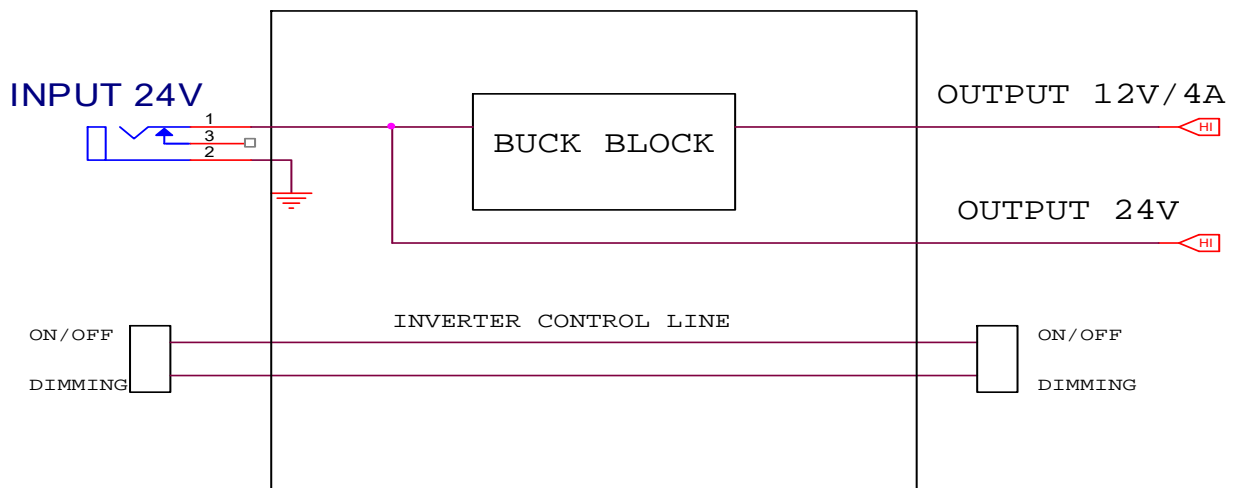
9. Appendix - A (Option: 24V DC Power Board)

This is an optional daughter board which can support the direct power supply (24V DC) from a SMPS or System Power, then discharges the 12V DC to AD card or similar devices and the 24V DC by-pass to backlight of LCD display directly.

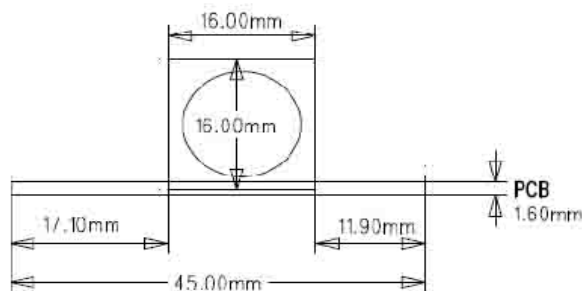
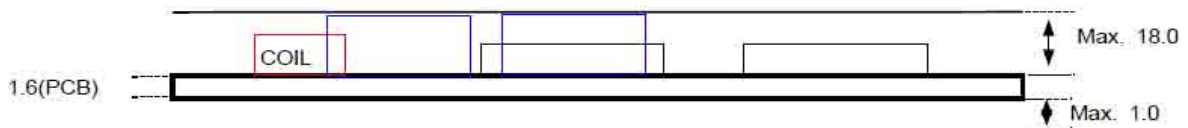
Output Characteristics

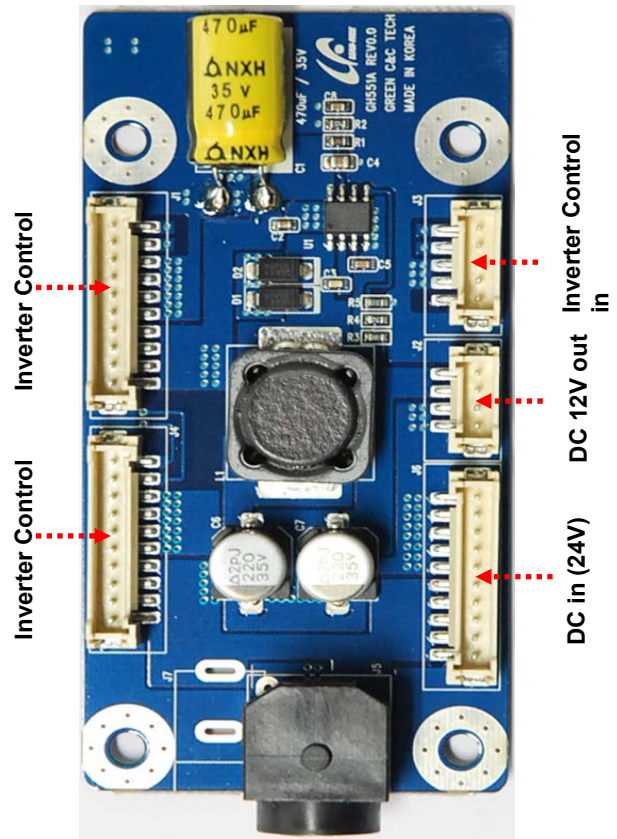
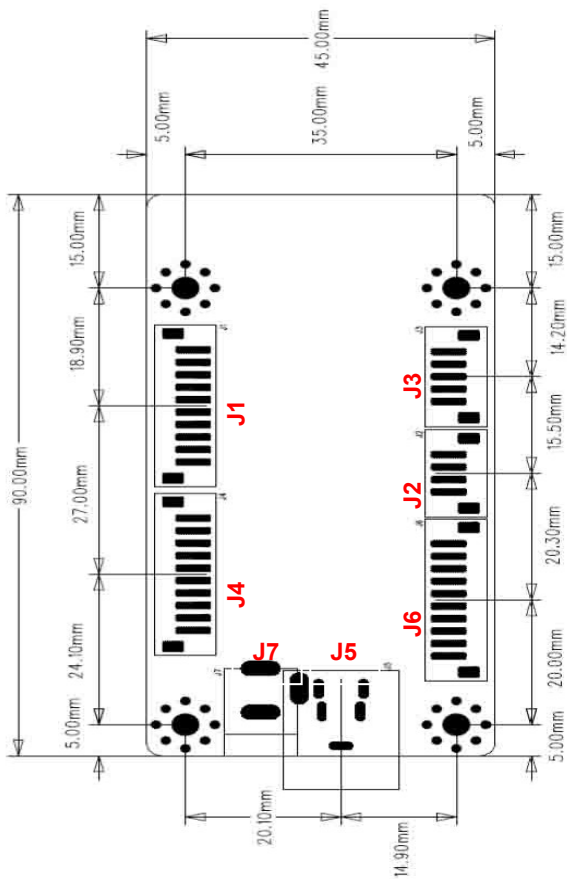
Item	Symbol	Specification			Unit
		Min	Typ	Max	
Input Voltage	Vin	21.6	24	26.4	Vdc
Input Current	Iin	-	-	2	Adc
Output Voltage	Vout	10.8	12	13.2	Vdc
Output Current	Iout	-	-	3.0	Adc

9.1 Block Diagram



9.2 Dimension and Picture





9.2.1 J1 & J4 / Inverter Control output Connector SMW200-H10G (YEON HO)

Pin No	Symbol	Pin No	Symbol	Pin No	Symbol	Pin No	Symbol
1	Inv. On / Off	2	Dimming	3 ~ 6	GND	7 ~ 10	24V

9.2.2 J2 / Inverter Control input Connector SMW200-H05G (YEON HO)

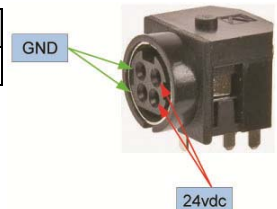
Pin No	Symbol	Pin No	Symbol	Pin No	Symbol	Pin No	Symbol
1	N.C.	2 ~ 3	GND	4	Dimming	5	Inv. On / Off

9.2.3 J3 / 12V DC Output Connector SMW200-H04G (YEON HO)

Pin No	Symbol	Pin No	Symbol	Pin No	Symbol	Pin No	Symbol
1	GND	2	GND	3	12V	4	12V

9.2.4 J5 / 24V DC Jack Connector DIN-422(BSUN) (YEON HO)

Pin No	Symbol	Pin No	Symbol	Pin No	Symbol	Pin No	Symbol
1	+24V	2	GND	3	+24V	4	GND



9.2.5 J6 / 24V DC Power Input Connector SMW200-H10G (YEON HO)

Pin No	Symbol	Pin No	Symbol
1 ~ 5	24V	6 ~ 10	GND

9.2.6 J7 / 24V DC Power Input Jack (round type) (Yeon-Ho)

10. Appendix - B (Option : RS232 control Protocols)

The RS-232 Serial control (Baud rate **38400**, 8 bits, 1 stop bit and no parity, ASCII Code)

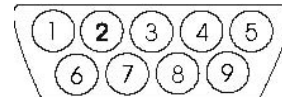
Physical connection:

Controller side: Connector interface: CN3 Mating connector: SMH200-03(YEONHO)
--

Computer side: Connector interface: Serial port Mating connector: DB9 Female

PIN#	Description
1	RS-232 Tx Data
2	RS-232 Rx Data
3	Ground

PIN#	Description
2	RS-232 Rx Data
3	RS-232 Tx Data
5	Ground



Remark:

RS-232 connection cable, 600mm P/N 4260902-00 can be ordered separately for connection.

Software connection:

The OSD function can be controlled through sending the RS-232 protocol.

The RS-232 program can be custom-made to fit for application or it can be used the serial control program, like Access port, Telex or Serial Utility program.

10.1. Serial Protocol

Command	Header (1)	Command (1)	*Data Type (1)	*Data (1)		*Check (1)
Remocon Function		0x01	0x00	*Key Code		-
Power	Request 0xAA	0x03	0x00: Value 0xFF: Status Read	0x00	Power On	-
				0x0A	Power Off	-
				0xFF	Status Read	-
Contrast	Response 0x55	0x11	0x00: Value 0x80: Decrease by 1 0x81: Increase by 1 0xFF: Data Read	0x00 ~ 0x64	0 ~ 100	-
Brightness		0x12		0x00 ~ 0x64	0 ~ 100	-
Sharpness		0x13		0x00 ~ 0x64	0 ~ 100	-
Color Mode		0x16		0x00 0x01 0x02 0x03	Normal Warm Cool User	

Data Sheet

Command	Header (1)	Command (1)	*Data Type (1)	*Data (1)		*Check (1)
Color Red	Request 0xAA	0x17	0x00: Value 0x80: Decrease by 1 0x81: Increase by 1 0xFF: Data Read	0x00	0	
				~	~	
				0xFF	255	
Color Green		0x18		0x00	0	
				~	~	
		0xFF	255			
Color Blue	Response 0x55	0x19		0x00	0	
				~	~	
		0xFF	255			
Backlight		0x1B		0x00	0	
				~	~	
				0x64	100	
Auto Color		0x1C	0x00	0x00	Execution	
Adv. H-Position	Request 0xAA	0x20	0x00: Value 0x80: Decrease by 1 0x81: Increase by 1 0xFF: Data Read	0x00	0	-
				~	~	
				0x64	100	
Adv. V-Position		0x21		0x00	0	
				~	~	
		0x64	100			
Adv. Clock	Response 0x55	0x22		0x00	0	-
				~	~	
				0x64	100	
Adv. Phase		0x23		0x00	0	-
				~	~	
				0x64	100	
Adv.Auto		0x24	0x00	0x00	Execution	
Menu Language	Request 0xAA	0x40	0x00: Value 0x80: Decrease by 1 0x81: Increase by 1 0xFF: Data Read	0x00	English	
				0x01	French	
				0x02	Deutsch	
				0x03	Spanish	
				0x04	Chinese1	
	0x05	Chinese2				
	0x06	Japanese				
	0x07	Korean				
OSD Time Out	Response 0x55	0x42		0x00	Off	
				0x01	5 Sec.	
				0x02	15 Sec.	
				0x03	30 Sec.	
				0x04	45 Sec.	
	0x05	60 Sec				
Restore Default		0x43		0x00	Execution	
Image Flip	Request 0xAA	0x56	0x00: Value 0x80: Decrease by 1 0x81: Increase by 1 0xFF: Data Read	0x00	Off	
				0x01	On	
Image Mirror	Response 0x55	0x57		0x00	Off	
				0x01	On	

Data Sheet

* Check sum = Header Byte XOR Command XOR Byte Type Byte XOR Data Byte

* Data Type

0x00	: Value	=> * Data :	0x00 ~ 0xFF	(All)
0x80	: Decrement by 1	=> * Data :	0x00	(All)
0x81	: Increment by 1	=> * Data :	0x00	(All)
0xFF	: Data Read	=> * Data :	Request - 0x00	
			Response - 0x00 ~ 0xFF	

* Key Code Remocon Key Command

IRKEY_DVI	= 0x06,
IRKEY_PC	= 0x04,

Audio function Option

Hex to ASCII conversion table

Hex	ASCII	Hex	ASCII	Hex	ASCII	Hex	ASCII
0x30	0	0x41	A	0x61	a	0x2B	+
0x31	1	0x42	B	0x62	b	0x2D	-
0x32	2	0x43	C	0x63	c	0x3F	?
0x33	3	0x44	D	0x64	d		
0x34	4	0x45	E	0x65	e		
0x35	5	0x46	F	0x66	f		
0x36	6	0x47	G	0x67	g		
0x37	7	0x48	H	0x68	h		
0x38	8	0x49	I	0x69	i		
0x39	9	0x4A	J	0x6A	j		
		0x4B	K	0x6B	k		
		0x4C	L	0x6C	l		
		0x4D	M	0x6D	m		
		0x4E	N	0x6E	n		
		0x4F	O	0x6F	o		
		0x50	P	0x70	p		
		0x51	Q	0x71	q		
		0x52	R	0x72	r		
		0x53	S	0x73	s		
		0x54	T	0x74	t		
		0x55	U	0x75	u		
		0x56	V	0x76	v		
		0x57	W	0x77	w		
		0x58	X	0x78	x		
		0x59	Y	0x79	y		
		0x5A	Z	0x7A	z		

11. Appendix - C (LCD Model Selection)

: It will be updated continuously depending on firmware setting records

Part Number & Resolution (1920 x 1200)		Part Number & Resolution (1600 x 1200)	
Part Number	Maker	Part Number	Maker
LM240WU8-SLA2	LG 24"	LTM213U6-L01	SAMSUNG 21.3"
LM240WU8-SLD1	LG 24"	LQ201U1LW32	Sharp 20.1"
LTM240CT04	SAMSUNG 24"		

Part Number & Resolution (1920 x 1080)			
Part Number	Maker	Part Number	Maker
LTM230HP01	SAMSUNG 23"	G173HW01-V0	AUO 17.3"
LTM230HT10	SAMSUNG 23"	M215HW02-V0	AUO 21.5"
LTI400HA08	SAMSUNG 40"	M215HW03-V1	AUO 21.5"
LTI400HA10	SAMSUNG 40"	M215HTN01.1	AUO 21.5"
LTI460HM03	SAMSUNG 46"	G215HVN01-V0	AUO 21.5"
LTI460HA03	SAMSUNG 46"	G240HW01-V0	AUO 24"
LTI460HN03	SAMSUNG 46"	M240HVN02.1	AUO 24"
LTI460HN04	SAMSUNG 46"	T260HW02-V1	AUO 26"
LTI550HN03	SAMSUNG 55"	M270HVN02.1	AUO 27"
LTI550HF03	SAMSUNG 55"(120Hz)	M270HW02-V1	AUO 27"
LM215WF3-SLC1	LG 21.5"	P270HVN01.0	AUO 27"
LM215WF3-SLE1	LG 21.5"	T315HW07-VE	AUO 31.5"
LM215WF3-SLK1	LG 21.5"	P320HVN01.0	AUO 32"
LM230WF3-SLB1	LG 23"	P420HVN01.0	AUO 42"
LM230WF3-SLC1	LG 23"	P420HVN02.0	AUO 42"
LM230WF3-SLD1	LG 23"	P420HVN03.0	AUO 42"
LM230WF3-SLE1	LG 23"	P420HW03-V0	AUO 42"(120Hz)
LM230WF3-SLK1	LG 23"	T420HW08-V5	AUO 42"
LM238WF1-SLA1	LG 23.8"	P460HVN02.0	AUO 46"
LM238WF3-SLD1	LG 23.8"	P460HVN03.0	AUO 46"
LM270WF5-SLM1	LG 27"	P550HVN01.0	AUO 55"
LC320EUD-SEF1	LG 32"(120Hz)	P550HVN02.0	AUO 55"
LC420EUN-SDV3	LG 42"	P550HVN03.0	AUO 55"
LC420WUN-SBA1	LG 42"	P650HVN02.3	AUO 65"
LD420WUN-SCA1	LG 42"	LK695D3LA48	SHARP 69.5"
LD420WUB-SCA1 (Enhancement Version)	LG 42" (2000cd/m2)	LK695D3LA58	SHARP 69.5"
		LITEMAX AU2125	LITEMAX 21.5"
LD420WUB-SCA1 (Normal Version)	LG 42" (700cd/m2)	LD470EUD-SDA1	LG 47"(120Hz)
		NL192108AC18-01D	NEC 15/6" (eDP panel)
LM238WF1-SLE1	LG 23.8"		

Part Number & Resolution (1440 x 900)		Part Number & Resolution (1920 x 540)	
Part Number	Maker	Part Number	Maker
M190PTN01.0	AUO 19"	JL270AT540A-V0	JUNGLIM 27" HALF
M190PW01-V8	AUO 19"		
LTM190M2-L31	SAMSUNG 19"		

Part Number & Resolution (1366 x 768)			
Part Number	Maker	Part Number	Maker
LTA320WT-L05	SAMSUNG 32"	LC185EXN-SCA1	LG 18.5"
LTA320W2-L01	SAMSUNG 32"	LC185EXN-SDA1	LG 18.5"
LTI320AP01	SAMSUNG 32"	G156XW01-V1	AUO 15.6"
LTI320AP02	SAMSUNG 32"	G185XW01-V1	AUO 18.5"
NL1366AC25-01D	NEC 15.6"		

Data Sheet

Part Number & Resolution (1280 x 1024)			
Part Number	Maker	Part Number	Maker
LM170E03-TLHB	LG 17"	G170EG01-V0	AUO 17"
LM190E08-TLL3	LG 19"	G170EG01-V1	AUO 17"
LB190E02-SL01	LG 19"	M170ETN01.0	AUO 17"
LTM170E8-L01	SAMSUNG 17"	G190EAN01.0	AUO 19"
LTM170E8-L03	SAMSUNG 17"	G190EG02-V1	AUO 19"
LTM190E4-L02	SAMSUNG 19"	NL128102BC29-10	NEC 19"
LTM190ET01	SAMSUNG 19"	IDK-170N-K2SXA1	LITEMAX 17"
NL128102AC26-01	NLT 17"		

Part Number & Resolution (1024 x 768)			
Part Number	Maker	Part Number	Maker
NL10276BC24-13C	NEC 12.1"	LB150X02-TL01	LG 15"
NL10276BC30-18C	NEC 15"	LB150X02-TL02	LG 15"
NL10276BC30-34D	NEC 15"	G104X1-L01	CMI 10.4"
NL10276AC30-42C	NLT 15"	G104X1-L03	CMI 10.4"
NLB150XG01L-01	NLB 15"	G104X1-L04	CMI 10.4"
NL10276BC30-33D	NLT 15"	G121X1-L03	CMI 12.1"
NL10276AC30-45D, 30-48D	NLT 15"	G150X1-L01	CMI 15"
TMS150XG1-10TB	TIANMA 15"	G150X1-L02	CMI 15"
AA084XB01	MISTUBISHI 8.4"	G150X1-L03	CMI 15"
AA084XE01	MISTUBISHI 8.4"	G150XGE-L04	CMI 15"
AA104XD02	MISTUBISHI 10.4"	G150XG01-V3	AUO 15"
AA104XD12	MISTUBISHI 10.4"	G150XG01-V4	AUO 15"
AA104XF02	MISTUBISHI 10.4"	G150XG02-V1	AUO 15"
AA121XL01	MISTUBISHI 12.1"	G150XG03-V4	AUO 15"
AA121XN11	MISTUBISHI 12.1"	G150XG03-V2	AUO 15"
AA150XS02	MISTUBISHI 15"	(Enhancement Version)	(1500cd/m2)
AA150XT11	MISTUBISHI 15"	G150XG03-V2	AUO 15"
AC150XA01	MISTUBISHI 15"	(Normal version)	(250 cd/m2)
AA150XS11	MISTUBISHI 15"	CLAA104XA02CW	CPT 10.4"

Part Number & Resolution (800 x 600)			
Part Number	Maker	Part Number	Maker
G121S1-L02	CMI 12.1"	NL8060BC21-11	NEC 8.4"
LB121S03-TL01	LG 12.1"	NL8060BC26-35D	NEC 10.4"
AA084SB01	MITSUBISHI 8.4"	NL8060BC26-35F	NEC 10.4"
AA084SB11	MITSUBISHI 8.4"	NL8060BC31-47D	NEC 12.1"
AA104SH12	MITSUBISHI 10.4"	G084SN05-V8	AUO 8.4"
AA104SG01	MITSUBISHI 10.4"	G084SN05-V9	AUO 8.4"
AC121SA01	MITSUBISHI 12.1"	G104SN02-V2	AUO 10.4"
NLB121SV01L-01	NEC 12.1"	G121SN01-V4	AUO 12.1"
NLB104SV01L-01	NEC 10.4"		
NLB084SV01L-01	NEC 8.4"		

Part Number & Resolution (640 x 480)		Part Number & Resolution (1680 x 1050)	
Part Number	Maker	Part Number	Maker
NL6448BC20-21C	NEC 6.5"	LTM220MT09	SAMSUNG 22"
NL6448BC20-21D	NEC 6.5"	LTM220M1-L01	SAMSUNG 22"
NL6448BC20-30C	NEC 6.5"	G220SW01-V0	AUO 22"
NL6448BC20-30D	NEC 6.5"	G220SVN01.0	AUO 22"
G065VN01-V2	AUO 6.5"	M220ZGE-L20	CMI 22"

Data Sheet

Part Number & Resolution (1280 x 800)			
Part Number	Part Number	Part Number	Maker
NL12880BC20-05	NEC 12.1"	LD101WX1-SL01	LG 10.1"
NL12880BC20-05D	NEC 12.1"	G154I1-LE1	CMI 15.4"
LTN101AL03	SAMSUNG 10.1"	AA121TD01	mitsubishi 12.1"
LTL101AL06	SAMSUNG 10.1"	AA141TC01	mitsubishi 14.1"

Part Number & Resolution (800 x 480)		Part Number & Resolution (1280 x 768)	
Part Number	Maker	Part Number	Maker
NL8048BC19-02	NEC 7"	AA106TA01	mitsubishi 10.6"
NL8048BC19-02C	NEC 7"	AA175TD01	mitsubishi 17.5"
NL8048BC24-09D	NEC 9"	NL12876AC18-03D	NEC 10.6"
NL8048AC19-14F	NLT 7"	NL12876BC26-28	NEC 15.3"
NL8048AC21-01F	NLT 8"	NL12876BC26-25	NEC 15.3"
LB070WV8-SL01	LG 7"	M170XW01-V2	AUO 17"
AA070MC01	mitsubishi 7"		
AA080MB01	mitsubishi 8"		
AA090MF01	mitsubishi 9"		
AA090MH01	mitsubishi 9"		

Part Number & Resolution (1024 x 600)	
Part Number	Maker
NL10260BC19-01D	NEC 8.9"

" Please see the actual dip switch position for LCD panel selection and all the setting positions of jumper switches from the following pages. "

Panel Selection and related dip switch setting

Document Update : Jun 24, 2016.										Kind : 147			Standard Firmware Version : (V160624)						
Number of Pixels	N	Selection Dip Switch for Panel								JEIDA, Normal	VCC	DIM	Maker Panels			Luminance (cd/m2)		BLU Type	Dimming Range of Firmware
		SW1								CN15	CN18	Inch	Part Number			MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC
1920x1200	3	1 ON	2 ON	3 OFF	4 OFF	5 OFF	6 OFF	7 OFF	8 ON	12V	DC	LG 24	LM240WU8-SLD1			250	300	GH465A	PWM_180HZ_30_100
1600x1200	4	1 OFF	2 OFF	3 ON	4 OFF	5 OFF	6 OFF	7 OFF	8 OFF	12V	PWM	SHAR 20.1	LQ201U1LW32			230	330	Built in LED : 12V	PWM_180HZ_30_100
1920x1080	13	1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	PWM	SEC 40	LTI400HA10			550	700	PVP-3140 : 24V BLU : CVT40-1	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	SEC 55	LTI550HF03 (120Hz)			600	700	PVP-3140 : 24V (BOD120M2)	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	AUO 55	P550HVN01.0			800	1000	PVP-2420 : 24V	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	AUO 55	P550HVN03.0(GAMMA 1)			560	700	LAMBDA : 24V, 24V SUB	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	AUO 46	P460HVN03.0			560	700	PVP-3140 : 24V, 24V SUB	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	AUO 46	P460HVN02.0			400	500	PVP-2340 : 24V, 24V SUB	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	AUO 42	P420HVN02.0			400	500	PVP-2420 : 24V	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	AUO 42	P420HVN03.0			560	700	PVP-2340 : 24V	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	AUO 31.5	T315HW07-VE			320	400	LAMBDA : 24V, GH552A	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	LG 42	LD420EUN-UHA1			560	700	PVP2342(H)	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 OFF	12V	Built in PWM	LG 49	LD490EUN-UHA1			560	700	PVP2342(H)	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	AUO 42	LD420WUN-SCA1			400	500	PVP-2420 : 24V	PWM_180HZ_30_100
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	PWM	LG 42	Enhancement version of LD420WUB-SCA1 (2,000cd/m2)			-	2000	-	PWM_180HZ_30_100
1920x1080	1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	LG 47	LD470EUD-SDA1 (120Hz)			360	450	PVP-2340, 2420, 3140 : 24V (BOD120M2)	PWM_180HZ_30_100	
1920x1080	1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	LG 32	LC320EUD-SEF1 (120Hz)			290	360	PVP-2340, 2420, 3140 : 24V (BOD120M2)	PWM_180HZ_30_100	
1920x1080	1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	LG 32	LD320EUN-SEM1			320	400	PVP-2342(H)	PWM_180HZ_30_100	
1920x1080	1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	AUO 32	P320HVN01.0			280	350	PVP-2340 : 24V	PWM_180HZ_30_100	

Number of Pixels	N	Selection Dip Switch for Panel							JEIDA, Normal	VCC	DIM	Maker Panels			Luminance (cd/m2)		BLU Type	Dimming Range of Firmware
		SW1							CN15	CN18	Inch	Part Number	MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC		
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	AUO 32	LD420EUB-SDA1	360	450	PVP-2340 : 24V	PWM_180HZ_30_100	
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	AUO 42	P420HVN01.0	550	700	PVP-3140 : 24V	PWM_180HZ_30_100	
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	5V	PWM	LG 21.5	LM215WF3-SLN1	200	250	GH465A(P27)	PWM_180HZ_30_100	
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	3.3V	Built in PWM	SHAR 15.6	LQ156M1LG21	480	600	Built in LED : 12V	PWM_180HZ_30_100	
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	5V	Built in PWM	INNO 19.53	M200HJJ0L01	200	250	Built in LED : 12V	PWM_180HZ_30_100	
1920x1080		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	5V	Built in PWM	LG 23.8	LM238WF1-SLE1	200	250	GH465A(P21)	PWM	
1920x1080	14	1 OFF	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	5V	Built in PWM	AUO 21.5	G215HVN01-V0/V1	240	300	Built in LED : 12V	INV_PWM_233HZ_10_100	
1920x1080		1 OFF	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	LG 26	LC260EUN-SDA1	280	350	LAMDA	INV_PWM_233HZ_10_100	
1920x1080		1 OFF	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	5V	Built in PWM	AUO 24	G240HW01-V0	240	300	Built in LED : 12V	INV_PWM_233HZ_10_100	
1920x1080		1 OFF	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	AUO 26	T260HW02-V1	240	300	Built in LED : 24V, 24V SUB	INV_PWM_233HZ_10_100	
1920x1080		1 OFF	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	AUO 42	T420HW08-V5	-	400	PVP-2340 : 24V	INV_PWM_233HZ_10_100	
1920x1080		1 OFF	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	12V	Built in PWM	AUO 42	P420HW03-V0 (120Hz)	-	500	PVP-2340 : 24V	INV_PWM_233HZ_10_100	
1920x1080	15	1 ON	2 ON	3 ON	4 ON	5 OFF	6 OFF	7 OFF	8 ON	3.3V	Built in PWM	AUO 17.3	G173HW01-V0	320	400	Built in LED : 12V	INV_PWM_233HZ_10_100	
1920x1080	16	1 OFF	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 ON	3.3V	Built in PWM	NLT 9	NL192108AC10-01D	210	400	built-in LED Driver + LVDS Converter added additionally	PWM_180HZ_30_100	
1920x1080		1 OFF	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 ON	12V	Built in PWM	LG 47	Backlight On Time 5sec Delay LD470EUD-SDA1 (120Hz) LD470EUP-SEA2	360	450	PVP-2420 : 24V, 24V SUB (BOD120M2)	PWM_180HZ_30_100	
1920x1080		1 OFF	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 ON	12V	Built in PWM	LG 42	Backlight On Time 5sec Delay LC420EUN-SDV3 LD420EUP-SEA2(120Hz)	290	360	PVP-2420 : 24V, 24V SUB (BOD120M2)	PWM_180HZ_30_100	
1920x1080	17	1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 ON	3.3V	Built in PWM	KOE 7	TX18D200VM0EAA	560	700	built-in LED Driver + LVDS Converter added additionally	PWM_180HZ_30_100	
1920x1080	18	1 OFF	2 ON	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 OFF	3.3V	Built in PWM	LG 15.6	LP156WF4_SPH1(eDP)	255	300	GH628A(eDP)	PWM_180HZ_30_100	
1920x1080		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 OFF	3.3V	Built in PWM	LG 15.6	LP156WF4_SPU1(eDP)	280	330	GH628A(eDP)	PWM_180HZ_30_100	

Number of Pixels	N	Selection Dip Switch for Panel								JEIDA, Normal	VCC	DIM	Maker Panels			Luminance (cd/m2)		BLU Type	Dimming Range of Firmware
		SW1								CN15	CN18	Inch	Part Number	MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC		
1920x1080	19	1 ON	2 ON	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 OFF	3.3V	Built in PWM	LG 15.6	LP156WF6_SPB1(eDP)	255	300	GH628A(eDP)	PWM_180HZ_30_100		
1920x1080		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 OFF	3.3V	Built in PWM	LG 14.6	LP140WF3_SPL1(eDP)	187	220	GH628A(eDP)	PWM_180HZ_30_100		
1920x1080		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 OFF	7 OFF	8 OFF	3.3V	Built in PWM	LG 13.3	LP133WF2_SPA1(eDP)	290	340	GH628A(eDP)	PWM_180HZ_30_100		
1920x1080	20	1 OFF	2 OFF	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	3.3V	Built in PWM	AUO 15.6	G156HTN01.0(eDP)	240	300	IT6251FN(eDP)	PWM_180HZ_30_100		
1366x768	21	1 ON	2 OFF	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	5V	PWM	LG 18.5	LC185EXN-SCA1	240	300	Built in LED : 24V, 24V SUB	PWM_180HZ_30_100		
1366x768		1 ON	2 OFF	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	5V	PWM	LG 18.5	LC185EXN-SDA1	200	250	Built in LED : 24V, 24V SUB	PWM_180HZ_30_100		
1366x768		1 ON	2 OFF	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	5V	Built in PWM	AUO 18.5	G185XW01-V1	240	300	Built in LED : 12V	PWM_180HZ_30_100		
1366x768		1 ON	2 OFF	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	5V	Built in PWM	AUO 15.6	G156XW01-V1	240	300	Built in LED : 12V	PWM_180HZ_30_100		
1366x768		1 ON	2 OFF	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	3.3V	Built in PWM	NEC 15.6	NL13660AC25-01D	-	400	Built in LED : 12V	PWM_180HZ_30_100		
1366x768		1 ON	2 OFF	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	3.3V	Built in PWM	NEC 15.6	NL13676BC25-03F	800	1100	Built in LED : 12V	PWM_180HZ_30_100		
1440x900		23	1 ON	2 ON	3 ON	4 OFF	5 ON	6 OFF	7 OFF	8 ON	5V	DC	SEC 19	LTM190M2-L31	250	300	DS-1308WG : 12V	NORMAL_DC_5_0V	
1280x1024	33	1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	Built in PWM	AUO 19	G190EG02-V1	240	300	Built in LED : 12V	INV_PWM_233HZ_10_100		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	Built in PWM	AUO 19	G190EG01-V1	280	350	Built in LED : 12V	INV_PWM_233HZ_10_100		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	Built in PWM	AUO 19	G190ETN01.2	280	350	Built in LED : 12V	INV_PWM_233HZ_10_100		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	Built in PWM	AUO 17	G170EG01-V1	280	350	Built in LED : 12V	INV_PWM_233HZ_10_100		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	Built in PWM	AUO 17	G170EGTN01.0	280	350	Built in LED : 12V GH671A(P1)	INV_PWM_233HZ_10_100		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	Built in PWM	sharp 19	LQ190E1LX75	280	350	Built in LED : 12V	INV_PWM_233HZ_10_100		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	PWM	-	IDK-170N-K2SXA1	-	1200	UMBL-24152-2 V3.0 [G170-1.4A] : 12V	24V DC + Audio B/D [Buyer : BF]		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	PWM	Limpia	A170PT	-	-	W2002 : 12V	INV_PWM_233HZ_10_100		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	PWM	LG 19	LB190E02-SL02	-	330	GH515A(P5)	INV_PWM_233HZ_10_100		

Number of Pixels	N	Selection Dip Switch for Panel								JEIDA, Normal	VCC	DIM	Maker Panels			Luminance (cd/m2)		BLU Type	Dimming Range of Firmware
		SW1								CN15	CN18	Inch	Part Number	MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC		
1280x1024		1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	PWM	NLT 17	NL128102AC26-01	280	400	Built in LED : 12V	INV_PWM_233HZ_10_100		
1280x1024	35	1 ON	2 ON	3 OFF	4 OFF	5 OFF	6 ON	7 OFF	8 ON	5V	PWM	MTS 19	AA190EA01	1200	1500	GH574A(P6)	INV_PWM_233HZ_10_100		
1024x768	41	1 ON	2 OFF	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	DC	NEC 15	NL10276BC30-33D	320	400	GH001HB : 12V	NORMAL_DC_5_0V		
1024x768	42	1 OFF	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	ANAL OG	CPT 10.4	CLAA104XA02CW	350	400	GH480A	NORMAL_DC_0_5V		
1024x768	43	1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 12.1	AA121XL01	800	1000	GH465A : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 12.1	AA121XN11	1000	1300	GH465A : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 10.4	AA104XD02	480	600	GH465A : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 10.4	AA104XD12	800	1000	GH465A : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 8.4	AA084XB01	480	600	GH465A : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 15.0	AA150XT11	1200	1500	GH465A : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	MTBS 15	AC150XA01	360	450	Built in LED : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	AUO 15	Enhancement version of G150XG03-V2 (1500cd/m2)	-	1500	W1001 : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 15	NLB150XG01-L-01	280	400	Built in LED : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 10.4	NL10276BC20-18	230	400	GH465A(P13) : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 10.4	NL10276BC20-18F	480	800	GH465A(P29) : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	CMI 12.1	G121X1-L03	500	600	Built in LED : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	AUO 15	G150XG03-V3	200	250	GH001A	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	AUO 15	G150XG01-V3	280	350	Built in LED : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	AUO 15	G150XG01-V4	280	350	Built in LED : 12V	INV_PWM_233HZ_30_100		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	AUO 15	G150XG03-V4	200	250	Built in LED : 12V	INV_PWM_233HZ_30_100		

Number of Pixels	N	Selection Dip Switch for Panel							JEIDA, Normal	VCC	DIM	Maker Panels			Luminance (cd/m2)		BLU Type	Dimming Range of Firmware
		SW1							CN15	CN18	Inch	Part Number	MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC		
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	CMI 10.4	G104X1-L01	350	400	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	CMI 10.4	G104X1-L03	300	350	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	CMI 10.4	G104X1-L04	400	500	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	CMI 15	G150XGE-L04	300	400	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	CMI 15	G150Xtn05.1		1200	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768		1 ON	2 ON	3 OFF	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	PWM	NEC 12.1	NL10276BC24-21F	460	800	GH465A : 12V	INV_PWM_233HZ_30_100	
1024x768	45	1 ON	2 OFF	3 ON	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	PWM	SHAR 15	LQ150X1LX95	460	800	GH465A : 12V	INV_PWM_233HZ_30_100	
1024x768		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	AUO 15	G150XVN01.0	240	300	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768		1 ON	2 OFF	3 ON	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	Built in PWM	AUO 15	G150XG01-V3	320	400	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768	46	1 OFF	2 ON	3 ON	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	DC	LG 15	LB150X02-TL02	400	500	GH115A(A2)	NORMAL_DC_5_0V	
1024x768		1 OFF	2 ON	3 ON	4 ON	5 OFF	6 ON	7 OFF	8 ON	3.3V	DC	LG 15	LB150X02-TL01	240	300	GH001HB : 12V	NORMAL_DC_5_0V	
1024x768	48	1 OFF	2 OFF	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 6.5	NL10276BC13-01C	390	650	GH465A(P20)	INV_PWM_233HZ_30_100	
1024x768		1 OFF	2 OFF	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 8.4	AA084XE01	400	500	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768		1 OFF	2 OFF	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 10.4	AA104XF02	480	640	Built in LED : 12V	INV_PWM_233HZ_30_100	
1024x768	49	1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	ANAL OG	NEC 6.5	NL10276BC13-01C	390	650	GH465A(A20)	NORMAL_DC_0_3.3V	
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	AUO 10.4	G104SN02-V2	300	400	Built in LED : 12V	PWM_233HZ_30_100	
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 8.4	AA084SB01	480	600	GH465A : 12V	PWM_233HZ_30_100	
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 8.4	AA084SB11	960	1200	GH465A : 12V	PWM_233HZ_30_100	
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 10.4	AA104SH12	960	1200	GH465A : 12V	PWM_233HZ_30_100	
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	MTBS 12.1	AC121SA01	360	450	GH465A : 12V	PWM_233HZ_30_100	

Number of Pixels	N	Selection Dip Switch for Panel								JEIDA, Normal	VCC	DIM	Maker Panels			Luminance (cd/m2)		BLU Type	Dimming Range of Firmware
		SW1								CN15	CN18	Inch	Part Number			MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC
800x600	51	1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 12.1	NL8060BC31-47D			300	450	GH465A(P18) : 12V	PWM_233HZ_30_100
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 10.4	NL8060BC26-35D			-	400	GH465A(P30) : 12V	PWM_233HZ_30_100
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 10.4	NL8060BC26-35F			480	800	GH465A(P3) : 12V	PWM_233HZ_30_100
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 12.1	NLB121SV01L-01			280	450	Built in LED : 12V	PWM_233HZ_30_100
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 8.4	NLB084SV01L-01			240	400	Built in LED : 12V	PWM_233HZ_30_100
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 10.4	NLB104SV01L-01			240	400	Built in LED : 12V	PWM_233HZ_30_100
800x600		1 ON	2 ON	3 OFF	4 OFF	5 ON	6 ON	7 OFF	8 ON	3.3V	PWM	MTBS 8.4	AA084SD11			960	1200	GH465A(P35) : 12V	PWM_233HZ_30_100
800x600	52	1 OFF	2 OFF	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	DC	NEC 12.1	NL8060BC31-47D			300	450	121PW01 / NLT	NORMAL_DC_0_2.5V
800x600	53	1 ON	2 OFF	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 8.4	NL8060BC21-11			240	400	GH465A(P18): 12V	PWM_233HZ_30_100
		1 ON	2 OFF	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 8.4	NL8060BC21-11D			240	400	GH465A(P18): 12V	PWM_233HZ_30_100
800x600	54	1 OFF	2 ON	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	CMI 12.1	G121S1-L02			380	500	Built in LED : 12V	PWM_233HZ_30_100
800x600		1 OFF	2 ON	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	AUO 8.4	G084SN05-V9			350	450	Built in LED : 12V	PWM_233HZ_30_100
800x600		1 OFF	2 ON	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	AUO 8.4	G084SN05-V8			350	450	Built in LED : 12V	PWM_233HZ_30_100
800x600	55	1 ON	2 ON	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	AUO 10.4	G104SN02-V2			300	400	Built in LED : 12V	PWM_233HZ_30_100
800x600		1 ON	2 ON	3 ON	4 OFF	5 ON	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	AUO 12.1	G121SN01-V4			330	450	Built in LED : 12V	PWM_233HZ_30_100
640x480	61	1 ON	2 OFF	3 ON	4 ON	5 ON	6 ON	7 OFF	8 OFF	3.3V	Built in PWM	AUO 6.5	G065VN01-V2			500	700	Built in LED : 12V	PWM_233HZ_30_100
640x480	62	1 OFF	2 ON	3 ON	4 ON	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 6.5	NL6448BC20-21C			-	800	GH465A : 12V	PWM_233HZ_30_100
640x480		1 OFF	2 ON	3 ON	4 ON	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 6.5	NL6448BC20-21D			400	550	GH465A : 12V	PWM_233HZ_30_100
640x480		1 OFF	2 ON	3 ON	4 ON	5 ON	6 ON	7 OFF	8 OFF	3.3V	PWM	NEC 6.5	NL6448BC20-30D			-	550	GH465A : 12V	PWM_233HZ_30_100
1440*900	63	1 ON	2 ON	3 ON	4 ON	5 ON	6 ON	7 OFF	8 ON	5V	PWM	AUO 19	M190PW01 V8			200	250	G374A(P2)	PWM_233HZ_30_100

Number of Pixels	N	Selection Dip Switch for Panel								JEIDA, Normal	VCC	DIM	Maker Panels			Luminance (cd/m ²)		BLU Type	Dimming Range of Firmware
		SW1								CN15	CN18	Inch	Part Number	MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC		
1440*900	64	1 OFF	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 ON	8 OFF	5V	DC	AUO 19	M190PW01 V0	250	300		NORMAL_DC_0_5V		
640x480	65	1 ON	2 OFF	3 OFF	4 OFF	5 OFF	6 OFF	7 ON	8 OFF	3.3V	PWM	NEC 6.5	NL6448BC33-71D	280	450	GH465A(P18) : 12V	PWM_233HZ_30_100		
640x480	66	1 OFF	2 ON	3 OFF	4 OFF	5 OFF	6 OFF	7 ON	8 ON	3.3V	DC	LG 6.4	LB064V02-TD01 / TTL	200	250	GH025A(A11)	NORMAL_DC_0_3.3V		
1280x800	81	1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	NEC 12.1	NL12880BC20-05	250	400	GH465A : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	NEC 12.1	NL12880BC20-05D	250	450	GH465A : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	Built in PWM	CMI 15.4	G154I1-LE1	350	450	Built in LED : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	Built in PWM	CMI 12.1	G121I1-L01	300	400	Built in LED : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	Built in PWM	CMI 12.1	G101ICE-L01/IPEX 40P		500	Built in LED : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	PWM	SEC 10.1	LTN101AL03	320	400	GH465A : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	PWM	SEC 10.1	LTL101AL06	320	400	GH465A : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	PWM	SEC 10.1	LL101AB01	320	400	GH465A : 12V	INV_PWM_180HZ_30_100		
1280x800		1 ON	2 OFF	3 OFF	4 OFF	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	NEC 12.1	NL12880BC20_07F	-	1500	GH524A(P2)	INV_PWM_180HZ_30_100		
1280x768		86	1 OFF	2 ON	3 ON	4 OFF	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	MTBS 17.5	AA175TD01	640	800	GH465A(P44) :12V	INV_PWM_233HZ_30_100	
1280x768			1 OFF	2 ON	3 ON	4 OFF	5 ON	6 OFF	7 ON	8 OFF	3.3V	Built in PWM	MTBS 10.6	AA106TA01	800	1000	Built in LED : 12V	INV_PWM_233HZ_30_100	
1280x768			1 OFF	2 ON	3 ON	4 OFF	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	NEC 10.6	NL12876AC18-03D	180	300	Built in LED : 12V	INV_PWM_233HZ_30_100	
1280x768	1 OFF		2 ON	3 ON	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	DC	NEC 15.3	NL12876BC26-28	230	330	GH115A(A1) : 12V	Backlight Reverse 100 ~ 0		
1280x768	1 OFF		2 ON	3 ON	4 OFF	5 ON	6 OFF	7 ON	8 ON	3.3V	DC	NEC 15.3	NL12876BC26-25	350	470	GH115A(A1) : 12V	Backlight Reverse 100 ~ 0		
800x480	91	1 ON	2 ON	3 OFF	4 ON	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	NEC 7	NL8048BC19-02	250	400	GH465A : 12V	PWM_180HZ_30_100		
800x480	93	1 ON	2 OFF	3 ON	4 ON	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	MTBS 7.0	AA070MC01	800	1000	Built in LED : 12V	PWM		
		1 ON	2 OFF	3 ON	4 ON	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	MTBS 8.0	AA080MB01	800	1000	Built in LED : 12V	PWM		

Number of Pixels	N	Selection Dip Switch for Panel								JEIDA, Normal	VCC	DIM	Maker Panels		Luminance (cd/m2)		BLU Type	Dimming Range of Firmware
		SW1								CN15	CN18	Inch	Part Number	MIN.	TYP.	CC.FL Inverter LED Driver SMPS	PWM, Analog DC	
		1 ON	2 OFF	3 ON	4 ON	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	MTBS 9.0	AA090MH01	640	800	Built in LED : 12V	PWM	
800x480	94	1 OFF	2 ON	3 ON	4 ON	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	KOE 7.0	TX18D37VM0AAB	640	800	Built in LED : 12V	PWM_51kHz_100_38	
800x480	95	1 ON	2 ON	3 ON	4 ON	5 ON	6 OFF	7 ON	8 OFF	3.3V	PWM	AM 7.0	AM-800480RTTZQW-TA1H	540	680	Built in LED : 12V	PWM	
1920*1080	104	1 OFF	2 OFF	3 OFF	4 ON	5 OFF	6 ON	7 ON	8 OFF	3.3V	PWM	AUO 14	B140HAN01.1(eDP)	255	300	GH628A(eDP)	PWM_180HZ	
1024*768	110	1 OFF	2 ON	3 ON	4 ON	5 OFF	6 ON	7 ON	8 ON	3.3V	Built in PWM	NLT 15	NL10276AC30-45D	280	400	built-in LED driver	cannot achieve the perfect dark(Black) screen at the dimming "0" level	
1920*1080	111	1 ON	2 ON	3 ON	4 ON	5 OFF	6 ON	7 ON	8 ON	3.3V	PWM	LG 12.5	LP125WF2_SPB1(eDP)	320	400	N173HGF(eDP)	PWM	
1920*1080		1 ON	2 ON	3 ON	4 ON	5 OFF	6 ON	7 ON	8 ON	3.3V	PWM	LG 13.3	LP133WF1(SP)(A1)(eDP)	255	300	N173HGFeDP)	PWM	
1920*1080		1 ON	2 ON	3 ON	4 ON	5 OFF	6 ON	7 ON	8 ON	3.3V 5V	PWM	NLT 15	NL192108AC18-01D	320	400	built-in LED Driver + N173HGF(eDP)	PWM	
1920*1080		1 ON	2 ON	3 ON	4 ON	5 OFF	6 ON	7 ON	8 OFF	3.3V 5V	PWM	NLT 15	NL192108AC18-01D	320	400	built-in LED Driver + GH628A(eDP)	PWM	