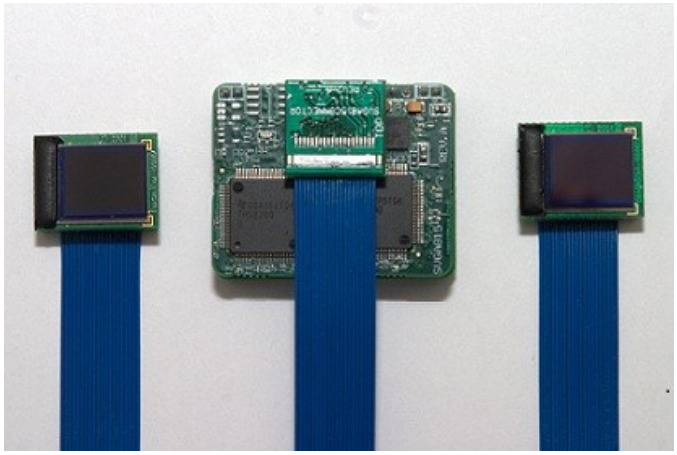
MRADIGITAL

SVGA–815 C/SM/DM/DS
Dual OLEDs Driver Board Module Datasheet

Features and Benefits

3D Stereo OLED Driver
Dual/Single OLED Driver
Multiple Video Inputs
- Dual HDMI
- Dual DVI
- Analog RGB
- Monochrome Composite Video
- iPhone, Samsung Galaxy

OLED Brightness and Color Control
Digital Stereo Audio (via HDMI port)
Built in EDID
Supports: SVGA-XL & SVGA-3D OLEDs
Built-in DC/DC Power Conversion
Low Input Voltage Range



Dual SVGA-XL & SVGA-3D OLED Driver

The SVGA-815 is a stereo 3D dual SVGA OLED driver board that allows video content to be displayed on two SVGA OLEDs simultaneously. With the inclusion of digital stereo audio, rich 3D applications can be developed.

The SVGA-815 is designed such that the OLEDs can be located up to 5 feet away from the main driver board. The interface board for the OLEDs is the same as the OLED and thus, allows the SVGA-815 to solve the most challenging packaging and space limited requirements.

The SVGA-815 is available in C, SM, DM and DS trim lines, an overview of their main features are listed below.

SVGA-815SM - Single video Input drives one SVGA OLED

SVGA-815DM - Single video Input drives two SVGA OLEDs

SVGA-815DS - Two video inputs drives two SVGA OLEDs

SVGA-815C –Single NTSC/PAL composite video input drivers two SVGA OLEDs. 815C is compatible with the iPhone, Samsung Galaxy, now you can drive your OLED with your mobile phone.

The SVGA-815 driver is available with a micro controller to allow for custom applications features, such as the addition of dials, push buttons etc.

Our USB base PC application and configuration cable provides calibration adjustment for, color gain/offset, brightness, image orientation, firmware upgrades and other register values.

Video can be transmitted to the OLEDs wirelessly using our WLLV wireless low latency technology.

Power Consumption

Input Voltage	3.5 – 5.5 V DC
Power Consumption	350mW (Depends on Configuration)

Input Video Format

HDMI DVI Analog RGB	800 x 600 @ 60 Hz
NTSC/PAL - RCA	640 x 480

EDID

Default	800 x 600 @ 60Hz

Software Configuration

USB - PC Application	Control Brightness Color: Gain/Offset control Firmware Upgrades Auxiliary Input/Outputs

Mechanicals

Dimension (L x W)	1.2 x 1.5 inches

Auxiliary Features

4 Digital Inputs/Outputs

7 Analog/ Digital Inputs/Outputs

Additional Software Features via On board Micro-controller

SVGA-815DS	
Dual HDMI Inputs	Stereo 3D Output (2 OLEDs)
Dual DVI inputs	Stereo 3D Output (2 OLEDs)
1 HDMI & 1 Analog RGB inputs	Stereo 3D Output (2 OLEDs)
1 DVI & 1 Analog RGB inputs	Stereo 3D Output (no audio)
HDMI Audio	Yes

SVGA-815DM	
Single HDMI Input	Mono (2 OLEDs)
Single DVI input	Mono (2 OLEDs)
Analog RGB input	Mono (2 OLEDs) (no audio)
HDMI Audio	Yes

SVGA-815SM	
Single HDMI Input	Mono (1 OLEDs)
Single DVI input	Mono (1 OLEDs)
Analog RGB input	Mono (1 OLEDs) (no audio)
HDMI Audio	Yes

SVGA-815C	
Single Composite Input	Mono (2 OLEDs)
Single Composite Input	Mono (1 OLED)
HDMI Audio	No

Video Input: DVI / HDMI # 1

Pin #	Definition	Function
JST - SM20B-SRSS-TB		
1	Data 2M	Digital Red Negative
2	Data 2M	Digital Red Positive
3	Ground	Ground
4	Data 1M	Digital Green Negative
5	Data 1P	Digital Green Positive
6	Ground	Ground
7	Data 0M	Digital Blue Negative
8	Data 0P	Digital Blue Positive
9	Ground	Ground
10	CLK M	CLK Negative
11	CLK P	CLK Positive
12	Ground	Ground
13	DVI VCC	+5V
14	Hot Plug	Hot Plug Detect
15	SCL	DDC Clock
16	SDA	DDC Data
17	Input Power	4.5 – 5.5V DC
18	Ground	Ground
19	Ground	Ground
20	Reserved	Reserved

Video Input: DVI / HDMI # 2

Pin #	Definition	Function
JST - SM20B-SRSS-TB		
1	Data 2M	Digital Red Negative
2	Data 2M	Digital Red Positive
3	Ground	Ground
4	Data 1M	Digital Green Negative
5	Data 1P	Digital Green Positive
6	Ground	Ground
7	Data 0M	Digital Blue Negative
8	Data 0P	Digital Blue Positive
9	Ground	Ground
10	CLK M	CLK Negative
11	CLK P	CLK Positive
12	Ground	Ground
13	DVI VCC	+5V
14	Hot Plug	Hot Plug Detect
15	SCL	DDC Clock
16	SDA	DDC Data
17	Input Power	4.5 – 5.5V DC
18	Ground	Ground
19	Ground	Ground
20	Reserved	Reserved

Video Input: Analog RGB

Pin #	Definition	Function
JST - SM20B-SRSS-TB		
1	Reserved	Reserved
2	Red	Analog Red Video
3	Red Return	Analog Red Return
4	Reserved	Reserved
5	Green	Analog Green Video
6	Green Return	Analog Green Return
7	Reserved	Reserved
8	Blue	Analog Blue Video
9	Blue Return	Analog Blue Return
10	VSYNC	VSYNC
11	HSYNC	HSYNC
12	Ground	Ground
13	Reserved	Reserved
14	Reserved	Reserved
15	Reserved	Reserved
16	Reserved	Reserved
17	Input Power	4.5 – 5.5V DC
18	Ground	Ground
19	Ground	Ground
20	Reserved	Reserved

Wireless Low Latency Video (WLLV)

Wireless Low Latency Video – Make your OLED based product wireless by using MRA Digital wireless video technology. Transmitting up to 1080p with 1-2 frame of latency at ranges over 100 meters with Wi-Fi and miles using microwave or Wi--Max. Contact us for more info.

Ordering Information

Part Number	Description
SVGA-815DS	Dual Input Stereo 3D Dual OLED Driver
SVGA-815DM	Single Input Dual OLED Driver
SVGA-815SM	Single Input Single OLED Driver
SVGA-815C	Single Input (NTSC/PAL) Dual OLED Driver
SVGA-1001	USB Configuration Cable
SVGA-ANALOG-C	Analog RGB Video & Power Cable
SVGA-COMP-C	Composite Video & Power Cable
SVGA-DVI-C	DVI Video & Power Cable
SVGA-HDMI-C	HDMI Video & Power Cable

Contact Information

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