

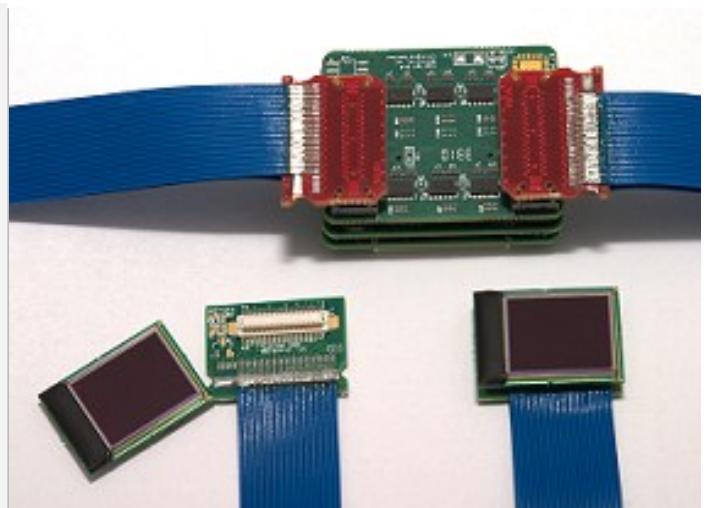


SXGA-1015 SM/DM/DS

Stereo 3D OLEDs Driver Board Datasheet Rev1.2

Features and Benefits

- 3D Stereo OLED Driver
- Dual/Single OLED Driver
- Multiple Video Inputs
 - Dual HDMI
 - Dual DVI
 - Analog RGB
- OLED Brightness and Color Control
- OLED Can be Located up to 5 feet Away
- Digital Stereo Audio (via HDMI port)
- Built in EDID
- Built-in DC/DC Power Conversion
- Low Input Voltage Range
- USB Calibration Software Via PC
- Compatibility: WLLV Wireless Video Products*



Stereo 3D SXGA OLED Driver

The SXGA-1015 is a stereo 3D dual SXGA OLED driver board that allows video content to be displayed on two SXGA OLEDs simultaneously. With the inclusion of digital stereo audio, rich 3D applications can be developed.

The SXGA-1015 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 SXGA-1015 to solve the most challenging packaging and space limited requirements.

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

SXGA-1015SM - Single video Input drives one SXGA OLED

SXGA-1015DM - Single video Input drives two SXGA OLEDs

SXGA-1015DS - Two video inputs drives two SXGA OLEDs

The SXGA-1015 driver is available with a micro controller to allow for custom applications features, such as the addition of dials, push buttons etc. In addition to the on board micro-controller, custom image and signal processing can be designed into the FPGA .

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

Power Consumption

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

Input Video Format

HDMI, DVI, Analog RGB	1280 x 1024 @ 60-85 Hz
	1280 x 720 @ 60- 85 Hz
	1024 x 768 @ 60-85Hz

EDID

Default	1280 x 1024 @ 60Hz
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Software Configuration

USB - PC Application	Control Brightness Gamma Updates Firmware Upgrades Auxiliary Input/Outputs
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Mechanicals

Dimension (L x W)	1.2 x 1.5 inches
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Auxiliary Features

- 3 Analog/ Digital Inputs/Outputs
- Additional Software Features via On board Micro-controller

SXGA-1015DS

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)
Dual Analog RGB Inputs	Stereo 3D Output (no Audio)
HDMI Audio	Yes

SXGA-1015DM

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

SXGA-1015SM

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

MicroHDMI connector – Pinout	
Pin #	Description
1	Hot Plug Detect
2	Not connected
3	Data 2 P
4	GND
5	Data 2 N
6	Data 1 P
7	GND
8	Data 1 N
9	Data 0 P
10	GND
11	Data 0 N
12	CLK P
13	GND
14	CLK N
15	Not connected
16	GND
17	SCL
18	SDA
19	5v Power

MicroHDMI as Analog VGA Input	
Pin #	Description
1	Not connected
2	Not connected
3	Red
4	GND
5	Not connected
6	Green
7	GND
8	Not connected
9	Blue
10	GND
11	Not connected
12	Hsync
13	GND
14	Vsync
15	Not connected
16	GND
17	SCL
18	SDA
19	5v Power

Micro USB Pinout	
Pin #	Description
1	5 Volts
2*	Tx or Digital/Analog IO
3*	Rx or Digital/Analog IO
4	N/C
5	Ground
*Note	Pins 2 and 3 are multiplexed with Digital/Analog IO ports. Therefore if they are used for communication then they are not available as Digital/Analog IO. If they are used as Digital/Analog IO they are not available as UART lines.

USB Power & Config Cable

HDMI to Analog VGA Cable Adapter



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
SXGA-1015DS- (HDMI or Analog)	Dual Input Stereo 3D Dual OLED Driver
SXGA-1015DM-(HDMI or Analog)	Single Input Dual OLED Driver
SXGA-1015SM-(HDMI or Analog)	Single Input Single OLED Driver
C-HDMI-ANALOG-ADPT-01	HDMI to Analog VGA Cable Adapter
C-USB-POWER-CONFIG-01	USB Power and Configuration Cable
C-uHDMI-DVI-01	Micro HDMI to DVI Cable
C-uHDMI-HDMI-01	Micro HDMI to Type A HDMI Cable
SXGA-1015-F-C-(XX) (xx—length)	SXGA Micro Coax Extension Cable

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