

Features and Benefits

Single OLED Driver
Multiple Configurations
Multiple Video Inputs

- HDMI
- DVI
- Analog RGB
- Digital RGB
- Monochrome/Color Composite Video

OLED Brightness and Color Control
Built in EDID

Supports: SVGA-XL & SVGA-3D OLEDs

Built-in DC/DC Power Conversion

Low Input Voltage Range

Very Low Power Consumption

USB Calibration Software Via PC

Compatibility: WLLV Wireless Video Products*



SVGA-XL & SVGA-3D OLED Driver

With support for HDMI, DVI, Digital RGB, Analog RGB, and NTSC/PAL composite video inputs (both color & monochrome), makes the SVGA-800S+ the most versatile driver board for the SVGA-3D and SVGA-XL OLEDs by eMagin. Video can be transmitted to the OLEDs wirelessly using our WLLV wireless low latency technology or via a cable if required.

The SVGA-800S+ OLED driver is designed for monocular, applications where having support multiple video input formats is paramount.

For those applications that have very tight space requirements, the SVGA-800+ is also available with a remote cable option that allows the OLED to be located up to 5 feet away from the main driver board. The PCB board for this option is the same size as the OLED. The remote cable is available in both round jacket or a ribbon style.

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

The SVGA-800S+ driver is available with a micro controller to allow for custom applications features, such as the addition of dials, push buttons etc.

Power Consumption

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

Input Video Format

HDMI	800 x 600 @ 60 Hz
DVI	
Analog RGB	
NTSC/PAL - Composite (Color & Monochrome)	640 x 480

EDID

Default	800 x 600 @ 60Hz
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Software Configuration

USB - PC Application	Control Brightness Color: Gain/Offset control 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

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

Video Input: Digital RGB			MicroHDMI connector – Pinout	
1	No Connect	No Connect	Pin #	Description
2	No Connect	No Connect		
3	Ground	Ground	1	Hot Plug Detect
4	No Connect	No Connect	2	Not connected
5	No Connect	No Connect	3	Data 2 P
6	Ground	Ground	4	GND
7	Ground	Ground	5	Data 2 N
8	Ground	Ground	6	Data 1 P
9	No Connect	No Connect	7	GND
10	Ground	Ground	8	Data 1 N
11	Ground	Ground	9	Data 0 P
12	Digital Input	Red0	10	GND
13	Ground	Ground	11	Data 0 N
14	Digital Input	Red1	12	CLK P
15	Digital Input	Data Enable	13	GND
16	Digital Input	Red2	14	CLK N
17	Digital Input	VSYNC	15	Not connected
18	Digital Input	Red3	16	GND
19	Digital Input	HSYNC	17	SCL
20	Digital Input	Red4	18	SDA
21	Digital Input	VCLK	19	5v Power
22	Digital Input	Red5	Video Input: NTSC/PAL (Color / Monochrome)	
23	Digital Input	Green0	U.FL Custom Coaxial Connectors Available	
24	Digital Input	Red6		
25	Digital Input	Green1		
26	Digital Input	Red7		
27	Digital Input	Green2		
28	Digital Input	Blue0		
29	Digital Input	Green3		
30	Digital Input	Blue1		
31	Digital Input	Green4		
32	Digital Input	Blue2		
33	Digital Input	Green5		
34	Digital Input	Blue3		
35	Digital Input	Green6		
36	Digital Input	Blue4		
37	Digital Input	Green7		
38	Digital Input	Blue5		
39	Digital Input	Blue7		
40	Digital Input	Blue6		

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 micro-wave or Wi--Max. Contact us for more info.

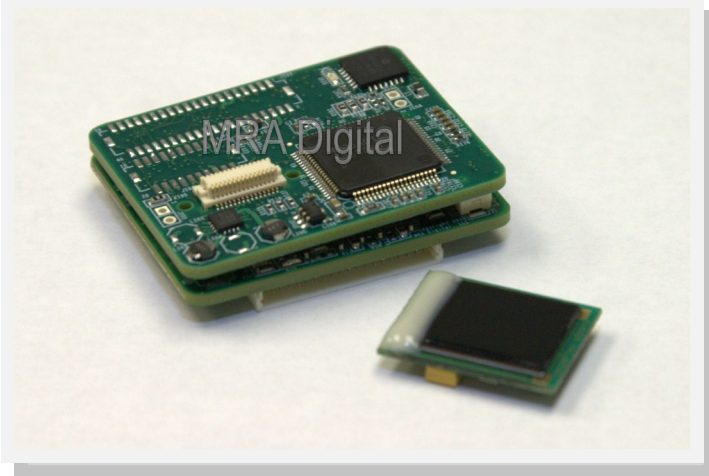
Ordering Information

Part Number	Description
SVGA-800S+HDMI	HDMI/DVI OLED Driver
SVGA-800S+DRGB	Digital RGB OLED Driver
SVGA-800S+ARGB	Analog RGB OLED Driver
SVGA-800S+COMP	Composite (NTPC/PAL) RGB 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
-R Option	The Remote (-R) can be added to any of the above part number and enables the OLED to be located up to 5 feet away from the drive electronics.

Contact Information

Telephone	443-224-8955 / 240-447-8803
Email	sales@mradigital.com
Web	www.mradigital.com

Product Photo



www.mradigital.com - sales@mradigital.com 443-224-8955

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