

Features and Benefits

- Single OLED Driver
- Multiple OLED Support
 - supports all eMagin SVGA OLEDs
- Multiple Configurations
- Multiple Video Inputs
 - SVGA
 - VESA VGA
 - Analog RGB
 - NTSC/ PAL Composite Video
 - HDMI/ DVI
- OLED Brightness and Color Control
- Detachable Mounting Tabs
- Built-in DC/DC Power Conversion
- Low Input Voltage Range
- Very Low Power Consumption
- USB Calibration Software Via PC
- Compatibility: WLLV Wireless Video Products

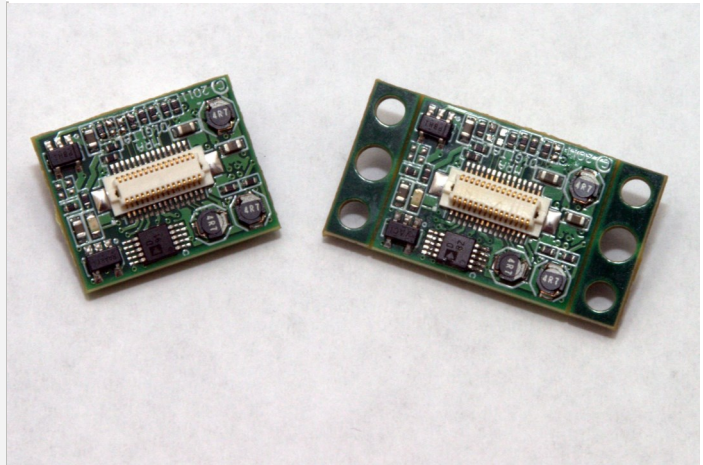
SVGA OLED Driver

With support for HDMI, Analog RGB and NTSC/PAL Composite video, the SVGA-800/815S-V3 is an OLED driver board that enables video to be displayed on eMagin SVGA+ and SVGA 3D OLEDs. Video can be transmitted to the OLEDs wirelessly using our WLLV wireless low latency technology or via a cable if required.

The driver is designed for monocular, binocular and stereoscopic applications where each display board must move independently and/or receive a different video signals.

Because of its small size, the 800S-V3 and the 815SM are available with mounting tabs that enables a secure connection to your housing, electronics, etc. The mounting tabs can be removed if they are not required.

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	3.3 – 5.0 V DC
Power Consumption	70mA with OLED

Input Video Format

SVGA (HDMI, Analog RGB)	800 x 600 @ 60,72,75,85 Hz
NTSC/PAL	60Hz/ 50 Hz
Vesa VGA (HDMI, Analog RGB)	640 x 480 @ 60,72,75,85 Hz

Compatible OLEDs

eMagin	SVGA+, SVGA 3D
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Software Configuration

USB - PC Application	Control Brightness
	Color: Gain/Offset Control
	Firmware Upgrades
	Image Orientation
	Individual Register Control

Mechanicals

Dimension (L x W)	Same Size as OLED (19.6 x 15.1)mm
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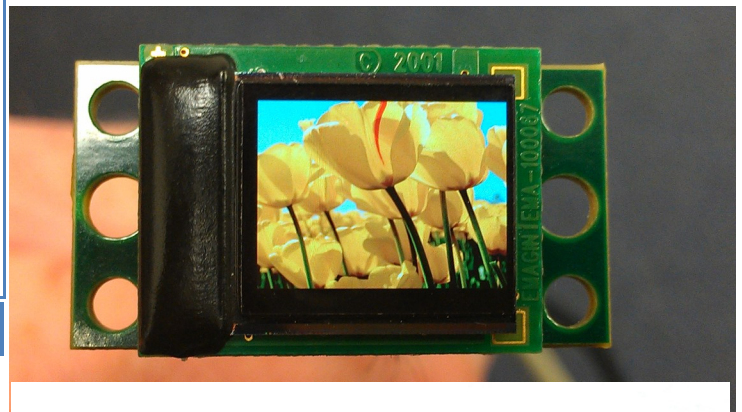
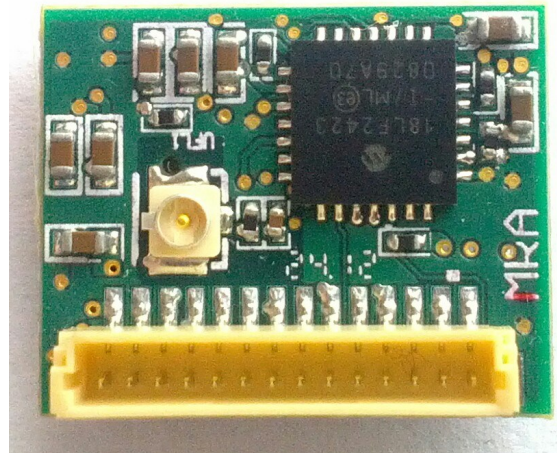
Contact Information

Email / Telephone
Web

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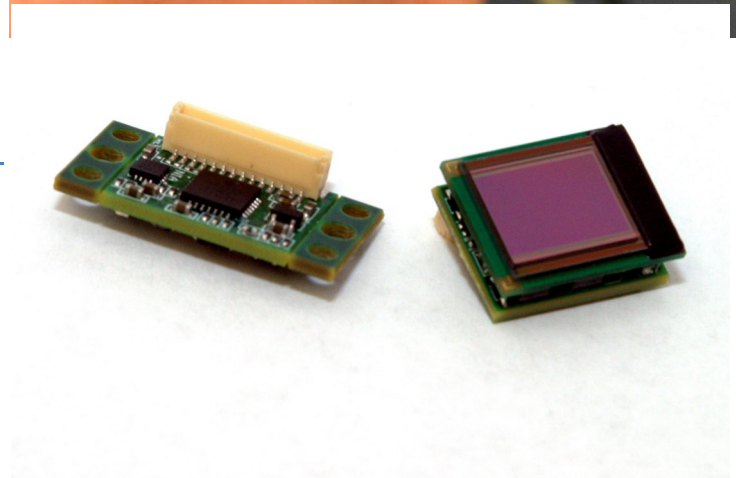
Video Input: (Analog)

Pin #	Definition	Function
JST - SM14B-SHLS-TF		
1	Reserved	Reserved (PGM)
2	Reserved	Reserved (MCLR)
3	RGB-Red	Analog Video Red
4	RGB-Green	Analog Video Green
5	RGB-Blue	Analog Video Blue
6	RGB-VSYNC	Analog Video-VSYNC
7	RGB-HSYNC	Analog Video-HSYNC
8	UART—TX	Output (3.3V CMOS)
9	UART—RX	Input (3.3V CMOS)
10	Ground	Ground
11	Ground	Ground
12	VCC	+5.0V DC
13	VCC	+5.0V DC
14	VCC	+5.0V DC



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.



Contact Information

Telephone

443-224-8955 / 240-447-8803

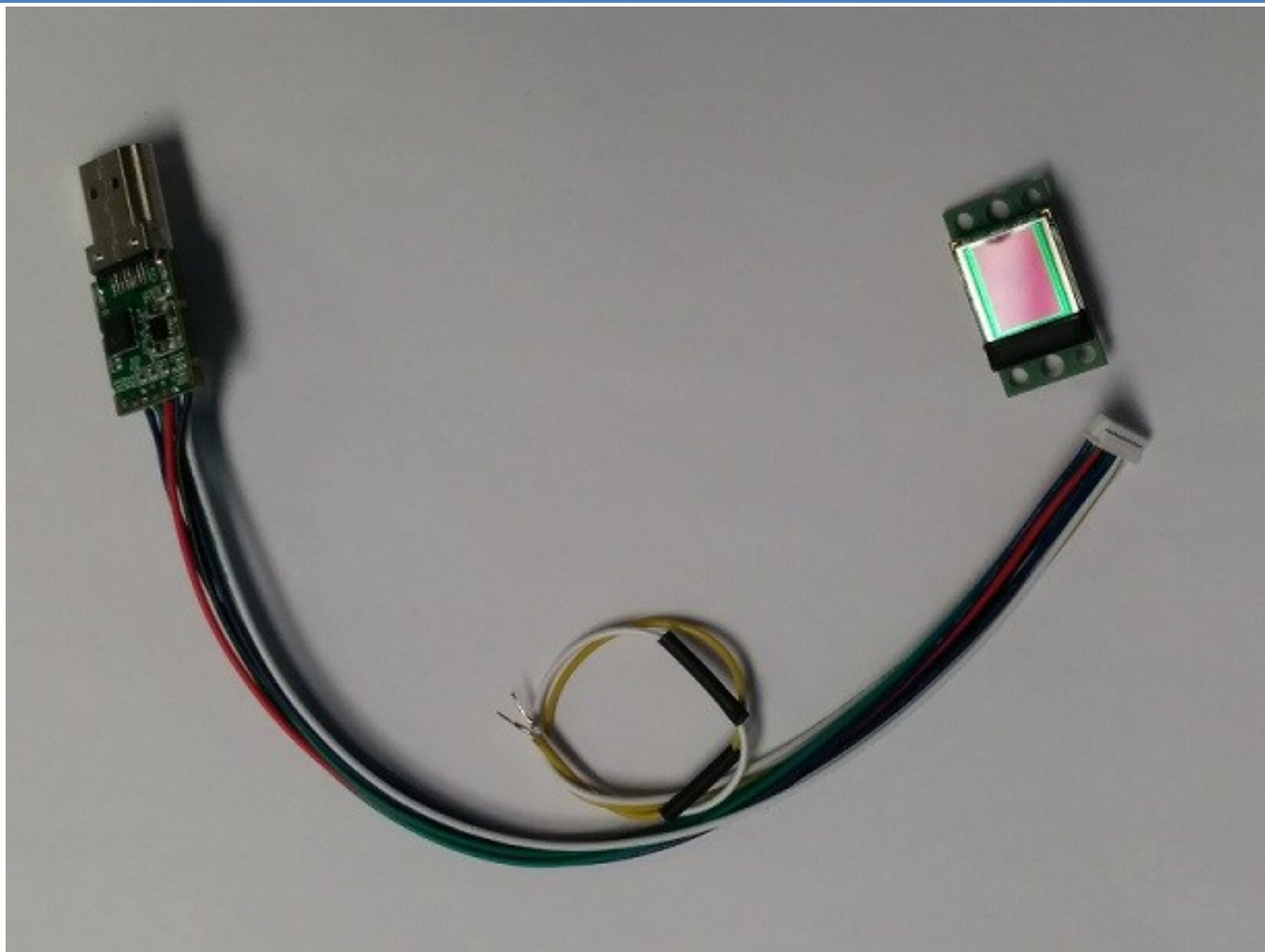
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Video Input: SVGA-815SM-V3-HDMI



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-Fi Max. Contact us for more info.

Ordering Information

Part Number	Description
SVGA-800S-V3	OLED Driver Version 3 with Micro U.FL connector
SVGA-815SM-V3-HDMI	OLED Driver Version 3 with HDMI Video Interface
SVGA-800S-V3-ARGB	OLED Driver Version 3 with DB15 Analog Video Interface
SVGA-1001-C	Video/Power/USB Configuration Cable
SVGA-1002-CPV	Deployment Composite Video & Power Cable
SVGA-1002-RPV	Deployment RGB Video & Power Cable

Contact Information

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