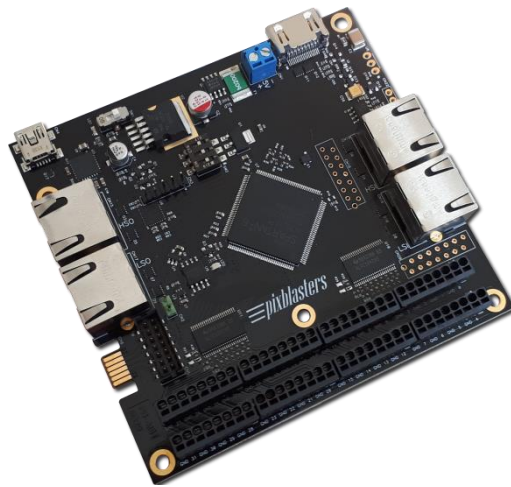


Pixblasters™ MS1 Video LED Strips Controller

ENABLES AFFORDABLE DIGITAL SIGNAGE FOR EVERYONE



The Pixblasters MS1 video LED controller connects to any computer and any operating system as an ordinary monitor to display the user-selected portion of the monitor image on up to 16,384 RGB LEDs at 60 frames per second (FPS). Multiple MS1 controllers can be easily chained to drive immense video displays built of hundreds of thousands of perfectly synchronized LEDs¹. The Pixblasters MS1 displays any visual content with absolutely no programming required and with no burden on the driving computer that is free to run digital signage players, media players, and other software at the full speed.

The LED displays controlled by the Pixblasters MS1 can be remotely managed anywhere in the world by virtually any digital signage software. With the MS1 LED controller, even those with minimal technical skills can build giant LED displays with no soldering and by using only simple tools like pliers, wire cutters and screwdrivers.

- Based on the Xilinx® Spartan®-6 XC6LX9-3 FPGA chip
- Includes the DVI® compatible video input with the on-board EDID flash and accepts the standard monitor cable
- Currently supports popular 3-wire LEDs (WS2811, WS2812B...). 4-wire APA102-like LEDs support planned in 1Q21.
- Supports different video input resolutions (max. 720p - 1280x720@60) and the RGB666 (256K colors) color format
- Drives up to 16,384 LEDs through 32 digital outputs that drive up to 512 LEDs each
- Supports wide range of output resolutions (H x V): 512 x 32 (native), 256 x 64, 128 x 128, 180 x 96 and others
- Integrates video input cropping and mirroring, multiple lines per output mode and LED gamma corrections
- Displays any graphics and video content – no limits on font types, animations, image and movie formats...
- Chained controllers can drive more than 200,000¹ of perfectly synchronized LEDs arranged in giant video displays
- Maximum LED display frame rate (60 FPS for WS2812B) is not affected by a number of controllers and attached LEDs
- Use common Ethernet cables for video and control links between chained controllers
- Validated with different computers and different OSes: Raspberry Pi, PC, media boxes, phones and tablets...
- Can be remotely controlled anywhere in the world through the network interfaces of the driving computer
- The driving computer is free of LED controls and the size of the LED display does not influence its performance
- The driving computer can run digital signage players, media players, web kiosk applications, custom software, etc.
- Display content can be designed and remotely administrated by any Digital Signage Software²
- On-board Microchip PIC18F26J50 microcontroller enables updates and permanently stores the display configuration
- Fully configurable through a configuration menu on the PC connected via the USB cable
- New features can be added to deployed controllers through a simple firmware upgrade procedure
- Single MS1 can be easily configured as a master or as a slave controller by on-board DIP switches
- Snap-action connectors enable easy wiring of the complete display with no need for any soldering
- The LED power supplies need to be wired separately to enable power and current requirements of giant LED displays
- Board dimensions: 95 x 100 mm

ANY COMPUTER & ANY OS

Raspberry Pi, PC, media boxes, phones... – connects to any computer as an ordinary monitor.

NO PROGRAMMING

Plug-in the monitor cable and the controller will smoothly drive LEDs at the maximum frame rate of 60 fps.

DISPLAY MANAGEMENT

Use any Digital Signage Software and add layered screen divisions, text, animations, video, RSS...

REMOTE CONTROL

Control it remotely anywhere in the world through network interfaces of the driving computer.

¹ Estimated through simulations

² Assumed compatible digital signage player running on the controlling computer

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