Freeform LED linear rail video display for retail, hospitality and architectural environments.

Media|Rail

Low latency
The design and architecture of KiboWorks control systems and the modular approach to the Stream protocol allows for significantly higher frame rates than standard LED displays using DMX. This produces very stable and smooth video images for LED displays. Video content is pre-compiled and generated to match the specific dimensions and pixel count of your display allowing frame rate upto 120 fps to be achieved giving ultra smooth animations.

MediaRail
KiboWorks LED MediaRail is a linear rail of encapsulated, super bright, RGB and White LEDs and can be manufactured to your specific requirments. Each LED on the rail is individually addressable for independent control of color, special effects, and animation using KiboWorks Stream, ArtNet, sACN or DMX512 protocol. The 16-bit color provides a rich selection of hues and brightness of colors even when dimming or low light levels.

Transparent for seamless integration
Thanks to their slim design, MediaRail enables easy architectural integration and maximal transparency. Through its intelligent cable management and numerous pixels per strip, the number of fixing points in the façade of the building is significantly reduced.

High performance processing
Based on our 20 years experiance designing advanced data processors, MediaRail offers a full video solution that can seamlessly work together with standard LED screens, generating accurate color reproduction without frame delay. The rails can be integrated in many different ways, from window profiles and sun louvers.

Low power consumption
We carefully select low-energy electronic components that work together with the highest level of energy efficiency. Bespoke power solutions eliminate maintenance issues and ensure maximum reliability in the display hardware while our advanced control system constantly monitors the power and can be remotely monitored and operated at any time.

KiboWorks
Custom LED Technology

KiboWorks Custom LED Technology.
9580 Oak Avenue Parkway
Suite 7-211 | Folsom | CA 95630

Tel: (+1) 916 9888921
Contact: John@kiboworks.com
KiboWorks products are custom designed and manufactured to project order or tenders.

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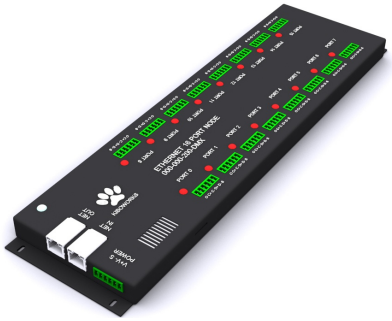
Operating Temperature	-20°C to +50°C @20%-100% Humidity
Voltage	7.5-48 Volts DC
Power Consumption	0.72 (w/60mA)
Output	5 Lumens per LED
Rated Life	75,000 Hours
Housing	Clear Polycarbonate with clear silicone
Light Source	RGB RGBW and White LED dot - encapsulated
Colour Control	16 bit
Colour Depth	48 bit
Gamma Correction	8 bit
Frame Rate (Typical)	100fps (Stream) 30fps (DMX)
Protocols	Stream, DMX512
Dimensions	15 x 15 x 9mm 0.59"x0.59"x0.35"
Dot Pitch	50, 75, 100 and Custom 2", 3", 4"
LEDs per string	Variable
Warranty	5 Years Limited
Environment	IP66 dot enclosure

All KiboWorks products are designed and manufacatured to the precise requirements of the project.

Remote monitoring
To maximize the uptime of your LED display we've developed the Remote Management Software (RMS) as part of our media server software. With remote monitoring, you are kept up to date on the status of your LED display at all times and you're proactively notified in case of malfunction. This software autonomously performs display diagnostics and logs all actions and responces carried out by the Media server.

Integrated calibration
As LED displays consist of multiple LED boards, it's essential to generate a consistent image across the entire surface. The LED displays can be calibrated for various Gamma options and Pulse Width Modulation (PWM) frequencys to reduce possible interferance from the surroundings. Each LED port can also be calibrated for LED color consistancy and a variety of LED display protocols can also be calibrated to the display.



KiboNode
The MediaRail display driver called KiboNode is a high performance data processor that can replace the need for a computer and media player soiftware to control the entire LED display.

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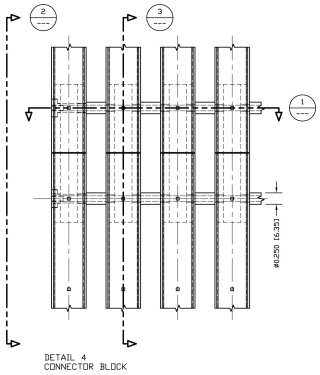

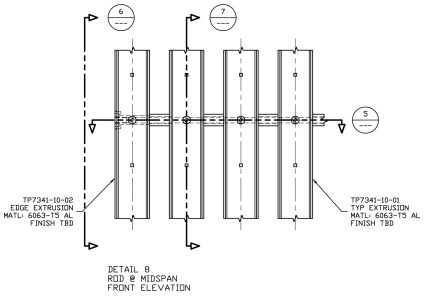

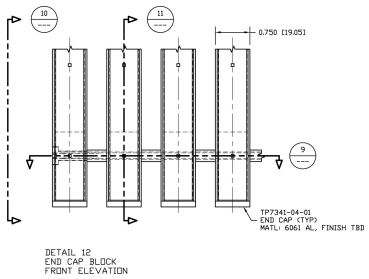

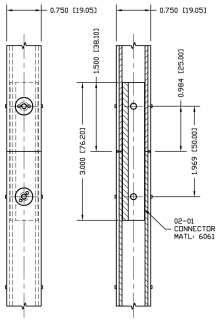

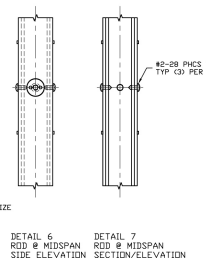

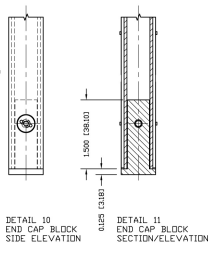

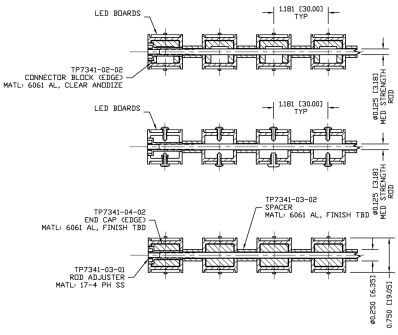

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