



20mmB3 eVidia RGB

Specifications & Physical Characteristics

Module	20mmB3
Display Pitch	20.3mm
Display Type	High Definition RGB Video Graphics
LEDs per pixel	3
LED Configuration	1 Red, 1 Green, & 1 Blue
LED lifetime	100,000 hours
Avg. Brightness @ 6300K	8,500 nits +/-
Dimming Levels	100 levels
Module Weight	4.25 LBS per SqFt (weights do not include enclosure)
Module + typical electronics	6.25 LBS per SqFt.
Min. Character Height	5.7" (Based on 7 pixel high characters)
Module Pixel Configuration	16h x 16w
Module Dimensions	12.8" x 12.8"
Watts Per Module	44
Pixels /module	256
Pixels /SqFt	225
Horizontal Viewing Angle	140 degrees
Vertical Viewing Angle	70 degrees
Ventilation	Forced Air or Sealed System, using Heat Exchangers or Air Conditioning (Depending on specific application)
Cabinet Material	Aluminum or Steel
Contrast Ratio	1000 to 1
Colors	4.4 Trillion RGB Colors
Communication Options	Ethernet via Copper or Fiber (Remote access capable)
Refresh Rate	240 Hz
Service Access	Front, Rear, or Front & Rear
File Type Compatibility	JPG, BMP, HTML, Flash, AVI, QuickTime, MPEG, and more
Input Source Options	Standard DVI, up to 192 different inputs (configurable based on your needs and expandable as needs change); optional NTSC/PAL, S-Video, SDI, HDSDI, etc. via best-in-class external scaler/switcher hardware.
Controller Requirements	Coldfire on-board controller (max height of 64 pixels & max width of 256 pixels) or eVidia system with IOI Controller (non-proprietary and open system)
Player Software	Multimedia provides standard software or clients can provide any player software of choice.



20mm Double Sided LED Billboard Lake Elsinore, CA

Hand Picked Diodes

We use only hand selected, top quality single bin diodes that are color matched for each display. Each diode lot is purchased for each display. For quality, we build spare parts out of the same diode lot and store them for your displays future use.

High Contrast

A poly carbonate face plate material was specially developed to absorb light and reduce reflective interference caused by sunlight. This fade-resistant coating material reduces glare and provides a high contrast ratio of 1000:1.

Advanced Diagnostics

Data flow through the eVidia system is constantly monitored by the diagnostic program. Display health statistics, including: module, power supply, and data distribution status can be monitored along with internal and external display temperature.

Color Control

eVidia systems produce true 4.4 trillion colors. The circuit designs incorporate a color correction system, which enables each module to precisely output the color combinations to match the image being produced. Color palette adjustments are sent to the modules every 30th of a second. eVidia also employs a color-specific GAMMA correction adjustment allowing both individual color brightness and non-linear color curves to guarantee exceptional color reproduction.

Flexible System Compatibility

No proprietary file formats - the system controller supports both digital and analog images, compatible with any DVI input.

4:4:4 RGB

We provide a compatible signal format that is universally digital, better than any other broadcast standard digital video. The true digital nature of 4:4:4 RGB Color means that it is never limited to the “rules” of the NTSC or analog video broadcast world.

Monolithic

We fuse all face materials to a single mono-bloc element leaving no fasteners exposed to the elements. The modules are fastened to the structural enclosure via quarter-turn latches and they attach accurately and securely to the face, so that it is virtually impossible to see grid lines.

Energy Efficient

Power is distributed at the correct voltage for each component without the use of energy robbing resistors and inefficient linear power supplies. We also use the highest efficiency diodes available on the market. This leads to the most efficient LED displays you can buy.



Feature | Benefit: Unique Louver design places the louver over each row of LEDs and over open areas | Smaller Louvers mean better shading and greater viewing angle.

Feature | Benefit: The darkest flat black surface finish available | Gives amazing contrast and image clarity in conjunction with high brightness LEDs

Feature | Benefit: No exposed hardware | Eliminates the small points of glare that can distract from the black background

Feature | Benefit: Nichia LEDs for all colors | Power efficiency and high brightness from the industry leader and pioneer in LEDs

Feature | Benefit: Custom molded gasket | Creates a watertight seal, ensuring a long display life and maximum up-time

Feature | Benefit: Conformal coated circuit board and potted module | Protects the electronics from the elements and ensures a long display life and maximum up-time

Feature | Benefit: Non-conductive silicone lubricant in all connectors | Keeps water and dust out of the critical connection points

Feature | Benefit: Molded water dam | In the unlikely event of water in the display, keeps the water away from the connectors

Feature | Benefit: One standard power and data connector per module | Quick service in the field reduces the total cost of ownership

Feature | Benefit: Four quarter turn latches to remove the module | Quick service in the field from either the front or the back of the display (display configuration choice) reduces the total cost of ownership



Back View 20mm Module 12.8” x 12.8”