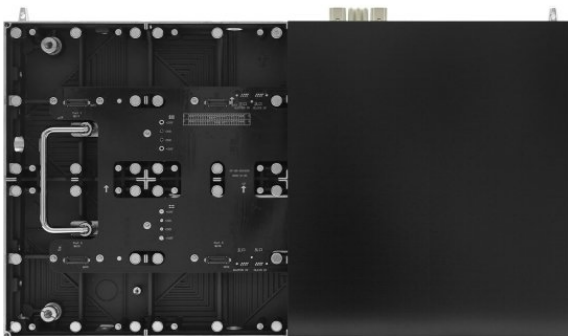


Sharp LD-D121

1.2 mm Indoor FinePitch LED Module

Datasheet



Next-Level Visual Performance. Built to Endure.

Delivering vibrant colour, deep blacks, and extreme contrast, the Sharp D Series redefines the visual experience with captivating content, even in the brightest environments. Powered by advanced flip-chip CoB technology, it provides outstanding image clarity and true blacks, aligning it for presentation of detail-rich content, wayfinding, and immersive digital storytelling across a variety of settings.

The highly energy efficient flip-chip CoB architecture not only enhances visual performance but also reduces power consumption, helping to significantly lower operating costs over its long lifetime.

Engineered for durability, the D Series performs reliably in demanding spaces such as transport hubs, public venues and corporate settings. Modular flexibility allows the configuration of any size or shape, seamlessly filling the available space without distracting bezels. Its robust construction, high brightness, and long service life make it a smart investment for professional installations that prioritise visual quality and long-term value.

Benefits

Excellent contrast ratio of up to 20000:1 and deep black level – ensures content is presented in vivid clarity for the best possible viewing experience.

Significantly lowering your energy usage – CoB technology is highly efficient, consuming up to 40% less power compared to standard SMD technology at the same brightness output.

Established mechanical cabinet design – supports wall mounted or freestanding installation with speed and ease, achieving precision module alignment for a single large surface perception.

Excellent visual performance – unseen colour reproduction with excellent off angle performance.

Secure investment in high-end dvLED visualisations – CoB technology enables installations to be more robust and long lasting.

Product Information

Product Name	Sharp LD-D121
Product Group	1.2 mm Indoor FinePitch LED Module
Order Code	81000847

Display

LED type	COB (0408)
Pixel Pitch [mm]	1.2
Brightness (max.) [cd/m²]	800
Lifetime	100000 hrs (50% brightness)
Contrast Ratio (typ.)	20000:1
Viewing Angle [°]	160 horizontal / 160 vertical
Dimming Capability	256 levels
Colour Processing	16 bit
Colours [Trill.]	281
LED Driving Method	1/45 dynamic scan
Frame Rate [Hz]	50/60
Refresh Rate [Hz]	≤ 3840
Colour Temperature [K]	3000 - 9500

Screen Resolution

Resolution per m²	623269
Number of Pixel per module [dot]	480 x 270
Number of Pixel per card [dot]	120 x 135

Electrical

Power Consumption typ. [W]	192 per m² (normal use)
Power Consumption max. [W]	337 per m²
Power Consumption typ. [BTU]	653 per m² (normal use)
Power Consumption max. [BTU]	1146 per m²

Environmental Conditions

Operating Temperature	-20 to 40
[°C]	
Operating Humidity [%]	10 to 80

Mechanical

Dimensions (W x H x D)	608 x 342 x 48.5
[mm] per module	
Weight [kg]	7

Additional Features

Special Characteristics	Single Data Receiving Cards; Single Power Supplies
Manufacturer	SHARP
Serviceability	Front Service
IP Level	IP20; IP40
Certifications	CE; ETL; FCC Class A; RoHS
Warranty	3 years
Material	Aluminum Cabinet



CE



FCC Class A



RoHS

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