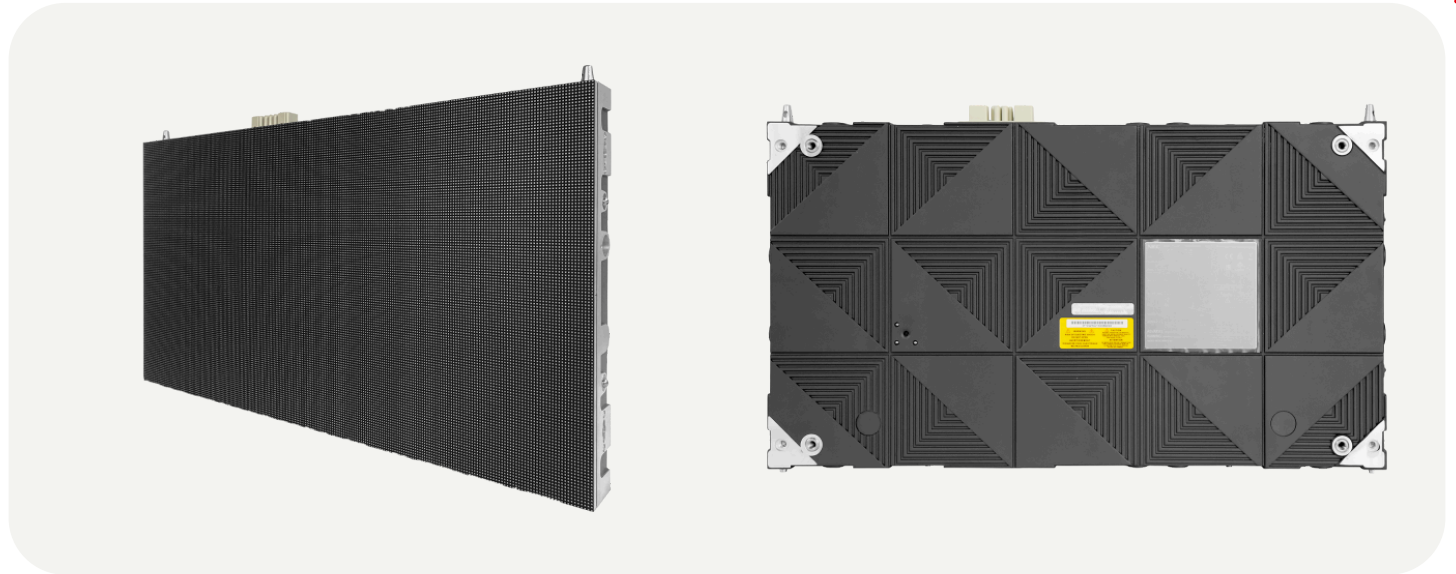


1.9 mm Indoor FinePitch LED Module

# Sharp LD-FE193



## Engineered for efficiency, without compromise

For bezel-free visual impact and long-lasting performance, the Sharp LD-FE3 Series sets a new benchmark in energy-efficient dvLED display technology. Built on NEC's legacy of engineering excellence, the third-generation FE Series features advanced Flip-Chip technology and industrial-grade components to deliver vibrant, high-contrast imagery while reducing energy consumption and heat output by up to 60%. The result is a substantial reduction in operating costs and HVAC demands, without compromising visual precision or performance.

The proven mechanical all-metal cabinet design ensures precise module alignment, long-term structural stability, and fire safety compliance. Configurable to any shape or size, its modular architecture supports endless creative potential, while front-serviceable modules enable hassle-free maintenance. With fine pixel pitch performance, the FE3 Series modules create a seamless detail-rich viewing experience, ideal for command and control, broadcast, signage, and conferencing. Its cost-saving efficiency also makes it a smart choice for education and leisure environments.

## Benefits

**Significantly lower energy usage** – Highly efficient Flip-Chip IMD technology reduces power consumption by up to 60% compared to standard SMD, at the same brightness.

**Uncompromised image quality** – An exceptional contrast ratio, ultra-deep black levels, fine pixel pitch, and wide viewing angles ensure vivid clarity and accurate colour reproduction even in bright ambient light conditions.

**Minimised interference** – low electromagnetic emissions allowing for EMC Class-B certified modules.

**Scalable versatility** – Customisable to any shape or size, the bezel-free modules fit the space available enabling endless creative possibilities and seamless large-surface installations.

**Slim design** – with a flush rear profile, LED modules can be integrated very close to the wall with minimal gap necessary due to very low heat emission.

# Specifications

## Product Information

### Product Name

Sharp LD-FE193

### Product Group

1.9 mm Indoor FinePitch LED Module

### Order Code

LDFE193

## Display

### Pixel Configuration

3-in-1 SMD (Black)

### LED type

FlipChip SMD (1010)

### Aspect Ratio

16:9

### Pixel Pitch [mm]

1.9

### Brightness (max.) [cd/m<sup>2</sup>]

700

### Lifetime

100000 hrs (50% brightness)

### Contrast Ratio (typ.)

8000:1

### Viewing Angle [°]

170 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 m<sup>2</sup>

277008

### Number of Pixel per module [dot]

320 x 180

### Number of Pixel per card [dot]

80 x 90

## Electrical

### Power Consumption typ. [W]

106 per m<sup>2</sup> (normal use)

### Power Consumption max. [W]

183 per m<sup>2</sup>

### Power Consumption typ. [BTU]

361 per m<sup>2</sup> (normal use)

### Power Consumption max. [BTU]

624 per m<sup>2</sup>

## Environmental Conditions

### Operating Temperature [°C]

-20 to 40

### Operating Humidity [%]

10 to 80

## Mechanical

### Dimensions (W x H x D) [mm] per module

608 x 342 x 49

### Weight [kg]

8.8

## Additional Features

### Special Characteristics

Cableless Connector for Data and Power; Flush Surface SMD Design; Single Data Receiving Cards; Single Power Supplies

### Manufacturer

SHARP

**Serviceability**

Front Service

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**IP Level**

IP20

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**Certifications**

CE; EMC Class B; ETL; FCC Class A; RoHS

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**Warranty**

3 years

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**Material**

Aluminum Cabinet

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CE



FCC Class A



RoHS

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