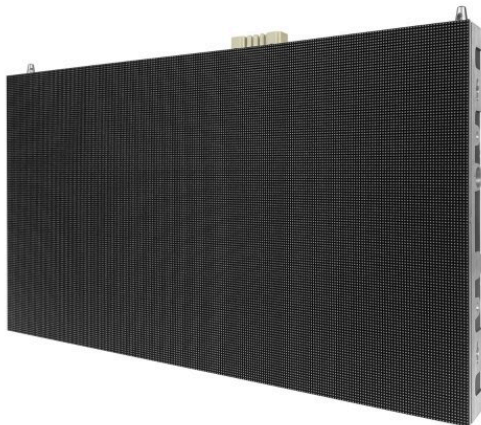


NEC LED-FE012i3

1.2 mm Indoor FinePitch LED Module

Datasheet



High efficiency dvLED paired with imaging performance

The direct View LED Series FE3 uses the latest flip-chip SMD technology to deliver stunning image performance with a state-of-the-art level of quality while increasing energy efficiency significantly to ensure reduced operating cost during its entire lifetime.

The Flipchip SMD Technology enables the FE3 to significantly lower the power consumption while also reducing the product heat load.

Benefit from excellent viewing angles, consistent vibrant colours, strong black levels, superb brightness and long lasting performance for meeting rooms and signage applications.

Benefits

Significantly lowering your energy usage - the highly efficient Flipchip SMD technology consumes up to 60% less power compared to standard SMD technology at the same brightness output.

Excellent contrast ratio of up to 8000:1 and deep black level - ensures content is presented in vivid clarity for the best possible viewing experience.

Minimized interference - low electromagnetic emissions allowing for EMC Class-B certified modules.

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.

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

Product Information

Product Name	NEC LED-FE012i3
Product Group	1.2 mm Indoor FinePitch LED Module
Order Code	81000474

Display

Pixel Configuration	3-in-1 SMD (Black)
LED type	FlipChip SMD (1010)
Pixel Pitch [mm]	1.2
Brightness (max.) [cd/ m²]	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 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]	106 per m² (normal use)
Power Consumption max. [W]	183 per m²
Power Consumption typ. [BTU]	361 per m² (normal use)
Power Consumption max. [BTU]	624 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 49
[mm] per module	
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	NEC
Serviceability	Front Service
IP Level	IP20
Certifications	CE; ETL; FCC Class A; RoHS
Warranty	3 years
Material	Aluminum Cabinet

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