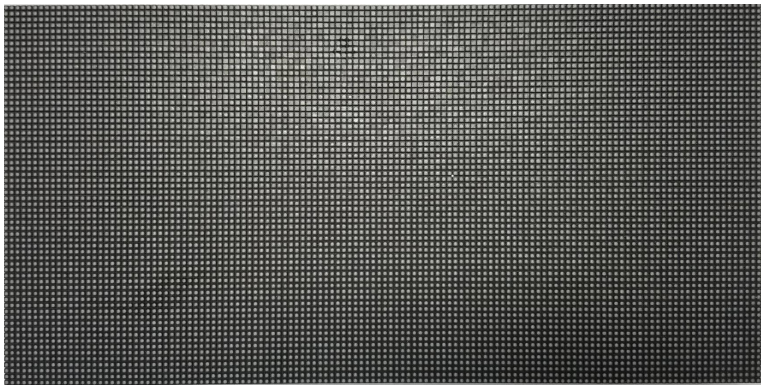
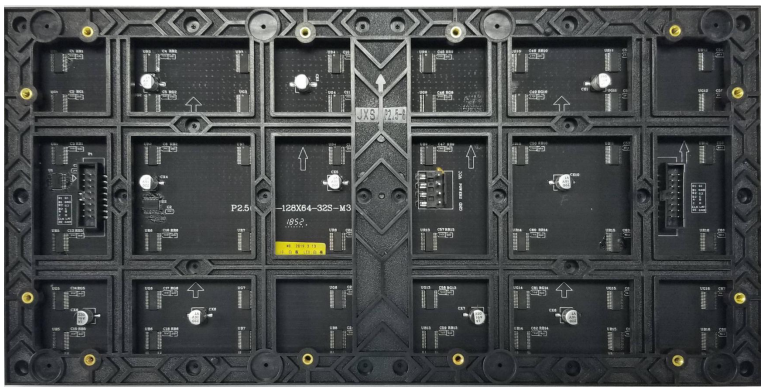
DP-N250GC

Indoor P2.5 Full-Color LED Module





Description

The DP-N250GC Indoor P2.5 Full-Color LED Module features a 2.5mm pixel pitch and 128×64 resolution, delivering sharp, vivid visuals for indoor applications. With 14-bit gray scale, brightness and color calibration support, and a wide 170° viewing angle, it ensures smooth, accurate, and consistent display performance.

Features

- 2.5mm pixel pitch with 128×64 resolution for sharp, detailed visuals.
- 14-bit gray scale with brightness and color calibration support for smooth, accurate color reproduction.
- 16-bit constant current driving with 1/32 scan mode for flicker-free, stable images.
- Wide 170° viewing angle for consistent display from multiple perspectives.
- Compact and lightweight design for easy installation.

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Specifications

LED Specifications (For reference only. Specifications may vary by shipment batch) (T=25℃)

Model	Color	IF (mA) TEST	Rd (nm) Typ	Iv (mcd) Typ	Vf (V) Typ	View Angle (deg.)
SMD2121	Red	15	620	50	2.0	110
	Green	10	525	170	3.0	110
	Blue	8	470	23	3.0	110

Model	DP-N250GC
Pixel Pitch	2.5mm
Pixel Density	160000 dots/㎡
Module Resolution	128×64 pixels (W×H)
Module Dimensions	320×160×14.2mm (W×H×D)
Module Weight	Approximately 350g
Driving Method	Constant current
Scan Mode	1/32
Operating Voltage	DC5V±10%
Maximum Current	5.6A (typical) ①
Maximum Power Consumption	28W (typical) ②
Power Interface	VH4
Signal Interface	HUB75E (IDC16)
Maximum Brightness	≥700cd/㎡
Color Temperature	1000-20000K (adjustable)
Viewing Angle	170°
Optimal Viewing Distance	≥2.5m
Gray Scale	14-bit
Brightness & Color Calibration	Support
Refresh Rate	≥3840Hz③
Operating Environment	Indoor
Brightness Adjustment Range	0-255 (adjustable)
Typical Lifespan	100,000 hours
Operating Temperature	-20℃~60℃
Operating Humidity	10%-90%RH, non-condensing
Storage Temperature	-40℃~80℃

Notes: ① ② Values depend on LED brightness and are for reference only. ③ Refresh rate is achieved using PWM-driven chips, ≥3840Hz.