



# 2021

## LED Display Modules Catalog

**HuaKe** / LED Display

## About Us

---

Be founded in the year of 2010, ShenZhen HuaKe Light Electronics Co., Ltd has devoted 10 years all in the field of LED Display and LED Lighting, and has developed into a high-tech enterprise which is committed to growing to be a worldwide innovation brand of Chinese LED Display & Lighting that having a series of private brands.

### Key Facts to Know

- \* HUAKE has built a mature and stable product development system, and obtained more than 20 utility model patents
- \* HUAKE has complete and stable QA quality control system and supply chain system, and obtain ISO9001:2015 authorization;
- \* 50-100 staff, sales to over 15 countries with an average over US\$2000,000 monthly turnover, we are expanding fast.
- \* Aiming to provide our clients with first-rate service and products — we' ll provide you like Custom LED Designs, Project Consulting, 24-hours online pre-sales contact, quick after-sales support, and no evasive warranty policy.

# LED Display Modules

## HUAKE LED Display Modules

Individual LED Display Modules, the small circuit that integrates the LEDs and the rest of the necessary electronics that can reproduce images and videos.

### LED Display Modules' Size

The sizes of the LED modules or LED boards are generally defined by the pixelization of the modules, while the module for rental display screen are in 250x250mm, which is designed in order to facilitate the LED display screen that constitutes a square meter unit.

### Pixel Pitches

Available from P1.25 to P10, among which the pixel pitch under 2.0mm are named as small pixel pitch which are used for high definition LED display projects.

### Indoor and Outdoor

LED display modules for indoor projects, 600-800nits brightness is enough, while outdoor LED display modules as expose in sun, high brightness >4500nits is required. For some indoor installation, but face to windows that has direct sunlight, also need to use high brightness but not waterproof.

### Connection and Wiring

LED Display Modules only have two/three connections. One/two the multipin data input these are sent to the modules from the controller card or Receiving Card.

And the other 3pin input for power supply. The modules that have two data interface can be daisy chain together in a limited quantify. Usually the LED display tiles are 5V DC powered. Each power supply feeds a group of LED modules.

### Fixing and Installing of LED Modules

Small LED modules can be installed in the structural frames or cabinets that make up the giant LED screen in several possible ways. Everything depends on the usage and installation of the screen.

### Fixation with screws

The modules are attached to the cabinet structure by screws. This is the most standard and usual way on LED displays.

### Magnetic fixation

For quick substitutions where maintenance has to be done in a few seconds. For this function, the screws are replaced by magnets.

### Parts and Components of an LED Display Module

#### Electronic board

Circuit with copper conductor tracks that interconnect its components. These plaques are assembled with fully automated integration processes. On the front, LEDs are inserted and, on the back, the ICs (chips or integrated circuits) are assembled.

#### Frontal mask

It is a black plastic front piece that has holes to match the position of the LEDs. Generally, it is assembled on the surface of the module with small screws. This grid or mask can protect the LEDs from attack and in outdoor display it added to improve its visibility with direct sunlight.

#### Rear plastic structure

Part of black plastic that is rigid or flexible, it gives rigidity and support to the printed circuit and allows its fixation on the chassis of the Cabinet LED. Rain resistant LED screens usually incorporate rubber gaskets to prevent water or moisture from entering the interior of the LED display .

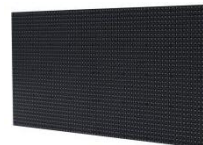
**NOTE:** The magnets, data cables and power cables are not included in the unit of the LED Display Module.



### M-HD Series

#### Small Pixel Pitch Indoor Full Color LED Module

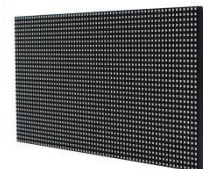
High resolution per unit area, produce higher definition. Images and videos. Seamless viewing to replace LCD video wall.



### M-ID Series

#### Indoor Full Color SMD LED Module

Regular indoor LED display modules satisfy for most fixed LED display project.



### M-OD Series

#### Outdoor Full Color SMD LED Module

IP65 Outdoor LED display modules in high brightness >5000nits, Still visible from long distance and under daylight sunshine.



### M-F Series

#### Flexible Indoor Full Color SMD LED Module

SMD LEDs fixed on bared flexible PCB, used for LED display screen that has curve or ribbon.



### M-SF Series

#### Silicon flexible Indoor Full Color SMD LED Module

Flexible PCB module with silicon base attached, add on flatness during installation.

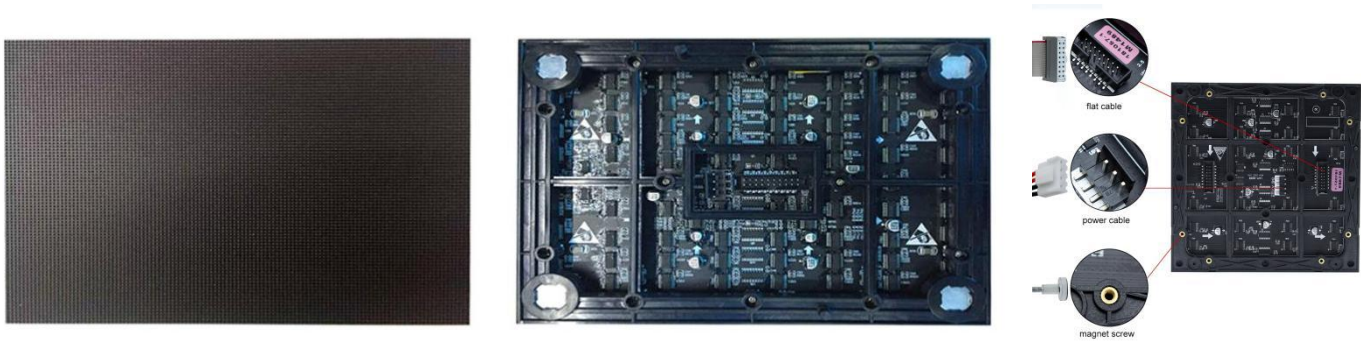


### M-WF Series

#### Outdoor Silicon Flexible Full Color SMD LED Module

Innovative design, complete waterproof flexible modules designed to fit the increasing need for outdoor modeling of screen .

# M-HD Series / Indoor High Definition LED Modules / LED Display Modules



SKU	Pixel Pitch	Module Dimension	Module Resolution	Module Pixel	Scan	Pixel Density	View Distance	LED	Brightness	Watt	IP Grade
M-HD1.25	1.25mm	200x150mm	160x120	19200dots	30S	640,000 dots/m²	>1m	SMD1010	600nits	20W	IP30
M-HD1.56	1.56mm	200x150mm	128x96	12288dots	32S	410,913 dots/m²	>1m	SMD1010	600nits	20W	IP30
M-HD1.66	1.667mm	200x150mm	120x90	10800dots	30S	359,856 dots/m²	>1m	SMD1010	600nits	20W	IP30
M-HD1.81L	1.81mm	320x160mm	176x88	15488dots	44S	305,240 dots/m²	>1m	SMD1010	600nits	20W	IP30
M-HD1.87	1.875mm	240x120mm	128x64	8192dots	32S	284,444 dots/m²	>1m	SMD1010	600nits	20W	IP30
M-HD2	2.0mm	256x128mm	128x64	8192dots	32S	250,000 dots/m²	>2m	SMD1515	800nits	20W	IP30
M-HD2L	2.0mm	320x160mm	160x80	12800dots	40S	250,000 dots/m²	>2m	SMD1515	800nits	30W	IP30





## M-ID Series / Indoor Rigid LED Modules / LED Display Modules

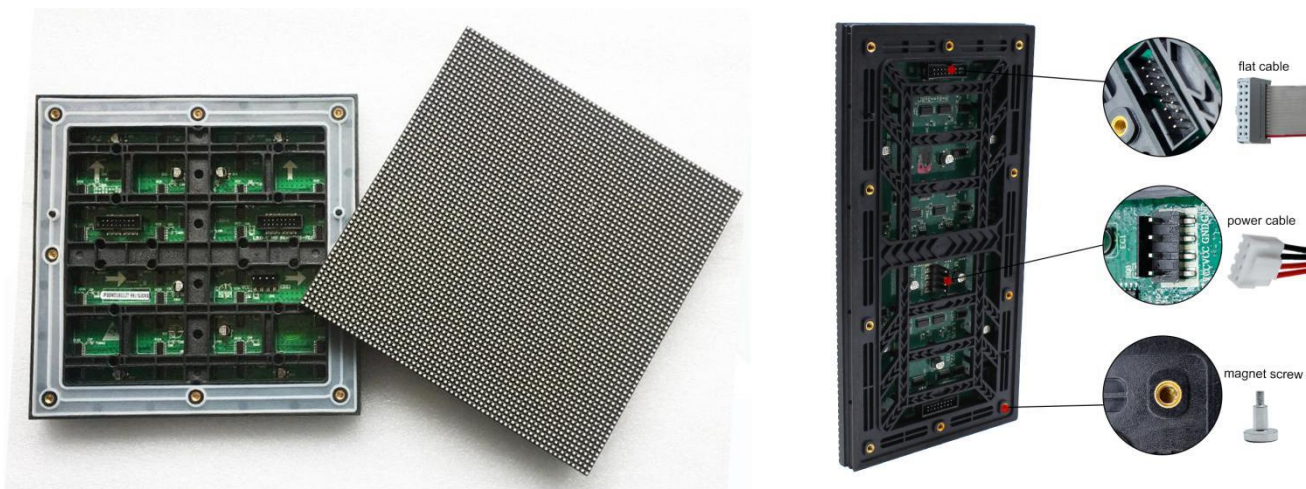


SKU	Pixel Pitch	Module Dimension	Module Resolution	Module Pixel	Scan	Pixel Density	View Distance	LED	Brightness	Watt	IP Grade
M-ID2.5	2.5mm	160x160mm	64x64	4096dots	32S	160,000 dots/m <sup>2</sup>	>2.5m	SMD2121	800nits	20W	IP30
M-ID2.5L	2.5mm	320x160mm	128x64	8192dots	32S	160,000 dots/m <sup>2</sup>	>2.5m	SMD2121	800nits	25W	IP30
M-ID2.9	2.976mm	250x250mm	84x84	7056dots	28S	112,896 dots/m <sup>2</sup>	>3m	SMD2121	800nits	20W	IP30
M-ID3	3mm	192x192mm	64x64	4096dots	32S	111,111 dots/m <sup>2</sup>	>3m	SMD2121	800nits	20W	IP30
M-ID3L	3.076mm	320x160mm	104x52	5408dots	26S	105,688 dots/m <sup>2</sup>	>3m	SMD2121	800nits	25W	IP30
M-ID3.9	3.91mm	250x250mm	64x64	4096dots	16S	65,410 dots/m <sup>2</sup>	>4m	SMD2121	800nits	15W	IP30
M-ID4	4mm	256x128mm	64x32	2048dots	16S	62,500 dots/m <sup>2</sup>	>4m	SMD2121	800nits	15W	IP30
M-ID4L	4mm	320x160mm	80x40	3200dots	20S	62,500 dots/m <sup>2</sup>	>4m	SMD2121	800nits	20W	IP30
M-ID4.8	4.81mm	250x250mm	52x52	2704dots	13S	43,264 dots/m <sup>2</sup>	>5m	SMD2121	800nits	15W	IP30
M-ID5L	5mm	320x160mm	64x32	2048dots	16S	40,000 dots/m <sup>2</sup>	>5m	SMD2121	800nits	15W	IP30
M-ID6	6mm	192x192mm	32x32	1024dots	16S	27,777 dots/m <sup>2</sup>	>6m	SMD3528	800nits	15W	IP30
M-ID7.6	7.62mm	244x122mm	32x16	512dots	8S	17,199 dots/m <sup>2</sup>	>7m	SMD3528	800nits	15W	IP30
M-ID10L	10mm	320x160mm	32x16	512dots	8S	10,000 dots/m <sup>2</sup>	>10m	SMD3528	800nits	15W	IP30





# M-OD Series / Outdoor Rigid LED Modules / LED Display Modules



SKU	Pixel Pitch	Module Dimension	Module Resolution	Module Pixel	Scan	Pixel Density	View Distance	LED	Brightness	Watt	IP Grade
M-OD2	2mm	256x128mm	128x64	8192dots	32S	250,000 dots/m <sup>2</sup>	>2m	SMD1921	4500nits	40W	IP65
M-OD2.5L	2.5mm	320x160mm	128x64	8192dots	32S	160,000 dots/m <sup>2</sup>	>2.5m	SMD1921	4500nits	40W	IP65
M-OD3	3mm	192x192mm	64x64	4096dots	16S	111,111 dots/m <sup>2</sup>	>3m	SMD1921	4500nits	25W	IP65
M-OD3.9	3.91mm	250x250mm	64x64	4096dots	16S	65,410 dots/m <sup>2</sup>	>4m	SMD1921	4500nits	15W	IP65
M-OD4	4mm	256x128mm	64x32	2048dots	8S	62,500 dots/m <sup>2</sup>	>4m	SMD1921	4500nits	30W	IP65
M-OD4L	4mm	320x160mm	80x40	3200dots	10S	62,500 dots/m <sup>2</sup>	>4m	SMD1921	4500nits	30W	IP65
M-OD4.8	4.81mm	250x250mm	52x52	2704dots	13S	43,264 dots/m <sup>2</sup>	>5m	SMD1921	4500nits	20W	IP65
M-OD5L	5mm	320x160mm	64x32	2048dots	8S	40,000 dots/m <sup>2</sup>	>5m	SMD2727	4500nits	20W	IP65
M-OD5.9	5.95mm	250x250mm	42x42	1764dots	7S	28,246 dots/m <sup>2</sup>	>6m	SMD2727	4500nits	20W	IP65
M-OD6	6mm	192x192mm	32x32	1024dots	8S	27,777 dots/m <sup>2</sup>	>6m	SMD2727	4500nits	20W	IP65
M-OD6.6L	6.667mm	320x160mm	48x24	1152dots	6S	22,477 dots/m <sup>2</sup>	>7m	SMD3535	4500nits	20W	IP65
M-OD8L	8mm	320x120mm	40x20	800dots	4S	15,625 dots/m <sup>2</sup>	>8m	SMD3535	4500nits	15W	IP65
M-ID10L	10mm	320x160mm	32x16	512dots	2S	10,000 dots/m <sup>2</sup>	>10m	SMD3535	4500nits	15W	IP65

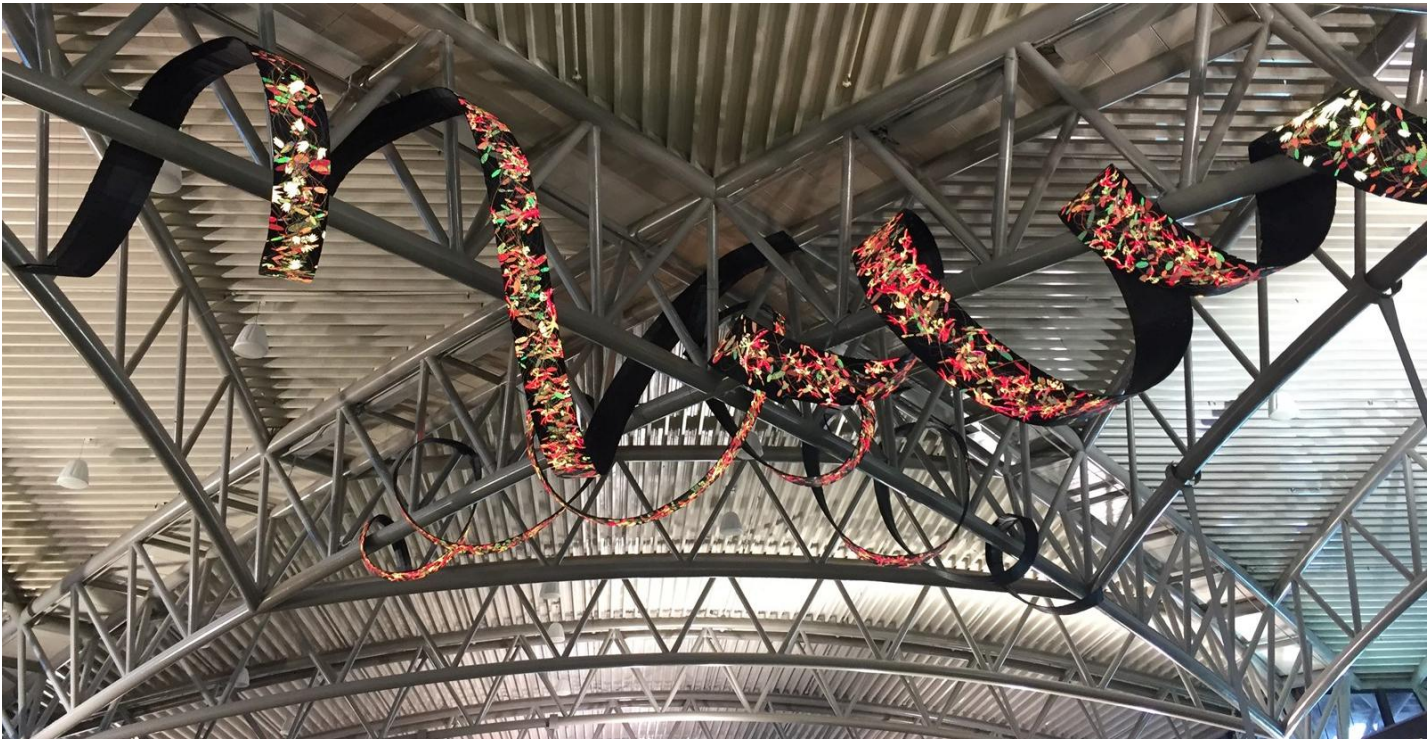




# M-F Series / Indoor Flexible LED Modules / LED Display Modules



SKU	Pixel Pitch	Module Dimension	Module Resolution	Module Pixel	Scan	Pixel Density	View Distance	LED	Brightness	Watt	IP Grade
M-F1.87	1.875mm	240x120mm	128x64	8192dots	32S	284,444 dots/m <sup>2</sup>	>2m	SMD1515	600nits	20	IP30
M-F2L	2mm	320x160mm	160x80	12800dots	32S	218,780 dots/m <sup>2</sup>	>2m	SMD1515	600nits	30	IP30
M-F2.5L	2.5mm	320x160mm	128x64	8192dots	24S	140,019 dots/m <sup>2</sup>	>2.5m	SMD2121	800nits	25	IP30
M-F3.2	3mm	256x128mm	80x40	3200dots	20S	97,656 dots/m <sup>2</sup>	>3m	SMD2121	800nits	15	IP30
M-F3.8	3.8mm	304.8x304.8 mm	80x80	6400dots	20S	69,264 dots/m <sup>2</sup>	>4m	SMD2121	800nits	25	IP30
M-F4L	4mm	320x160mm	80x40	3200dots	16S	62,500 dots/m <sup>2</sup>	>4m	SMD2121	800nits	15	IP30
M-F5L	5mm	320x160mm	64x32	2048dots	16S	40,000 dots/m <sup>2</sup>	>5m	SMD2121	800nits	15	IP30
M-F8	8mm	256x128mm	32x16	512dots	8S	15,625 dots/m <sup>2</sup>	>8m	SMD3535	4500nits	15	IP30





# M-SF Series / Indoor Silicon Base Flexible LED Modules / LED Display Modules



SKU	Pixel Pitch	Module Dimension	Module Resolution	Module Pixel	Scan	Pixel Density	View Distance	LED	Brightness	Watt	IP Grade
M-SF1.87	1.875mm	240x120mm	128x64	8192dots	32S	284,444 dots/m <sup>2</sup>	>2m	SMD1515	600nits	20	IP30
M-SF2L	2mm	320x160mm	160x80	12800dots	32S	218,780 dots/m <sup>2</sup>	>2m	SMD1515	600nits	30	IP30
M-SF2.5L	2.5mm	320x160mm	128x64	8192dots	24S	140,019 dots/m <sup>2</sup>	>2.5m	SMD2121	800nits	25	IP30
M-SF3.2	3mm	256x128mm	80x40	3200dots	20S	97,656 dots/m <sup>2</sup>	>3m	SMD2121	800nits	15	IP30
M-SF3.8	3.8mm	304.8x304.8 mm	80x80	6400dots	20S	69,264 dots/m <sup>2</sup>	>4m	SMD2121	800nits	25	IP30
M-SF4L	4mm	320x160mm	80x40	3200dots	16S	62,500 dots/m <sup>2</sup>	>4m	SMD2121	800nits	15	IP30
M-SF5L	5mm	320x160mm	64x32	2048dots	16S	40,000 dots/m <sup>2</sup>	>5m	SMD2121	800nits	15	IP30
M-SF8	8mm	256x128mm	32x16	512dots	8S	15,625 dots/m <sup>2</sup>	>8m	SMD3535	4500nits	15	IP30





SKU	Pixel Pitch	Module Dimension	Module Resolution	Module Pixel	Scan	Pixel Density	View Distance	LED	Brightness	Watt	IP Grade
M-WF2.5L	2.5mm	320x160mm	128x64	8192dots	24S	140,019 dots/m <sup>2</sup>	>2.5m	SMD1921	4500nits	40	IP65
M-WF3.2	3mm	256x128mm	80x40	3200dots	20S	97,656 dots/m <sup>2</sup>	>3m	SMD1921	4500nits	25	IP65
M-WF4L	4mm	320x160mm	80x40	3200dots	16S	62,500 dots/m <sup>2</sup>	>4m	SMD1921	4500nits	30	IP65
M-WF5L	5mm	320x160mm	64x32	2048dots	16S	40,000 dots/m <sup>2</sup>	>5m	SMD1921	4500nits	20	IP65
M-WF8	8mm	256x128mm	32x16	512dots	8S	15,625 dots/m <sup>2</sup>	>8m	SMD3535	4500nits	15	IP65





Website: [www.360digitalsignage.com](http://www.360digitalsignage.com) / [www.led.app](http://www.led.app)

Email: [info@360digitalsignage.com](mailto:info@360digitalsignage.com) / [info@led.app](mailto:info@led.app)

Mobile / Wechat / WhatsApp: 0086-133-0296-0992