

SAMSUNG

Outdoor LED Signage

XRB Series

Mesmerize passers-by with brilliant content



Industry Trend

As the world continues to re-emerge following recent years, outdoor displays are gaining popularity across the globe. From public spaces such as city squares, to shopping malls and convention centers, LED displays can function as a local landmark. Large LED signage draws the attention of passers-by, delivering exciting promotional content to generate interest in businesses and retail stores nearby. There is also an increasing need for outdoor displays that not only deliver dynamic content in vivid, vibrant quality, but are also easy to install and maintain in a range of versatile challenging environments.

Why Samsung XRB Series

Samsung's XRB series is the ideal solution for installation in any outdoor environment requiring high resolution and outstanding picture quality. Crisp, clear visibility captivates audiences even at a close distance.

By supporting hanging, ceiling, curved, inclined and L-shaped installations, the XRB series is adaptable to a variety of design requirements for any environmental specifications. All components are detachable, from the power box to modules, supporting full front and rear service for simple maintenance. Plus, the XRB series has full outdoor IP65/65 validated design to protect it against water and dust, ensuring optimum performance regardless of the surrounding conditions.

Highlights



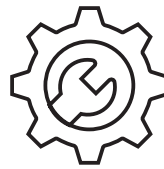
Brilliant Picture Quality

- 5,000 nit max brightness
- 3,840 Hz refresh rate



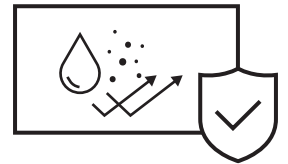
Easy & Flexible Installation

- 64mm slim depth
- 7.8kg / 14kg – two lightweight cabinet types
- Various installation support – Hanging, Curve, L-Type



Simple Maintenance

- Full front and rear service support
- All detachable components – from power box to modules



Reliable Outdoor Performance

- IP65/65 validated cabinet
- UV-resistant materials

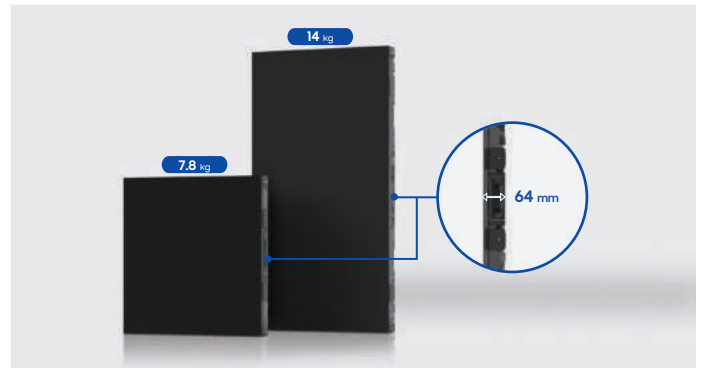


Key features



Clear, brilliant visuals

Catch the eye of passers-by with vibrant visuals. Featuring 5,000nit brightness, the XRB series is clearly visible even in direct sunlight, providing flawless content when viewed from close distance whether a customer is just passing by or walking into the store.



Compact design that allows for effortless installation

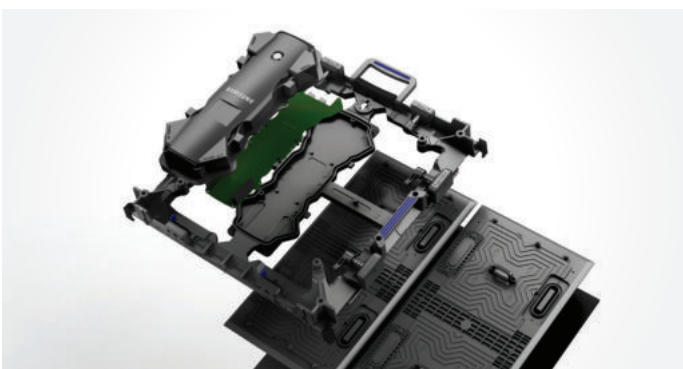
Install with ease. Samsung's XRB series now offers much simpler and easier installation, meaning the display can be up and running quicker than ever before. The two cabinets, weighing only 7.8kg or 14kg, are super slim at just 64mm thick, allowing one-man handling for even faster setup.

* Thickness is based on P2.9 cabinet. P3.9 cabinet is 64.5mm thick



Flexible installation for any location

A variety of installation options make the XRB series an optimal solution for any business needing an outdoor display. Multiple accessories are provided to enable easy setup of displays across a versatile range of environments, including hanging, stacking and L-type installation.



Simple, practical maintenance

With all components being detachable – from the power box to the modules – the XRB series supports full front and rear service, making maintenance simpler and more practical even in limited spaces, while ensuring minimal business downtime.



Optimum performance in any environment

Built to withstand the elements. With a full outdoor IP65/65 validated design, the XRB series delivers continuous performance regardless of the environment. The display is also equipped with UV-resistant materials, preventing further penetration of UV light to preserve its appearance.

Specifications

Model		XRB-X		XRB-Y		XRB-L	
		LH029XRBCXC	LH039XRBCXC	LH029XRBCYC	LH039XRBCYC	LH029XRBCLC	LH039XRBCLC
Basic parameter	Pixel Pitch	2.9 mm	3.9 mm	2.9 mm	3.9 mm	2.9 mm	3.9 mm
	Pixel Configuration	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1
	Pixel Density (m ²)	112,896 pixels/m ²	65,536 pixels/m ²	112,896 pixels/m ²	65,536 pixels/m ²	112,896 pixels/m ²	65,536 pixels/m ²
	Pixel Density (Cabinet)	28,224 pixels/panel	16,384 pixels/panel	56,448 pixels/panel	32,768 pixels/panel	28,224 pixels/panel	16,384 pixels/panel
	LED Lifetime Hr (24Hr, Luminance 50% down)	100,000 Hrs	100,000 Hrs	100,000 Hrs	100,000 Hrs	100,000 Hrs	100,000 Hrs
	Size of LED color bin combination	R:5nm, G:4nm, B:4nm	R:5nm, G:4nm, B:4nm	R:5nm, G:4nm, B:4nm	R:5nm, G:4nm, B:4nm	R:5nm, G:4nm, B:4nm	R:5nm, G:4nm, B:4nm
	Number of LED color bin combination	1ea, upto 2ea	1ea, upto 2ea	1ea, upto 2ea	1ea, upto 2ea	1ea, upto 2ea	1ea, upto 2ea
Physical parameter	Physical Resolution of Module (W × H)	84 × 168	64 × 128	84 × 168	64 × 128	84 × 168	64 × 128
	Physical Resolution of Cabinet (W × H)	168 × 168	128 × 128	168 × 336	128 × 256	168 × 168	128 × 128
	LED Module Dimensions (mm)	250 × 500	250 × 500	250 × 500	250 × 500	250 × 500	250 × 500
	No. of Modules Per Cabinet (W × H)	2 × 1	2 × 1	2 × 2	2 × 2	2 × 1	2 × 1
	Cabinet Dimensions (W × H × D) (mm)	500 × 500 × 64	500 × 500 × 64.5	500 × 1,000 × 64	500 × 1,000 × 64.5	500 × 500 × 64	500 × 500 × 64.5
	Weight Per Cabinet (kg/Cabinet)	7.8±5%	7.8±5%	14±5%	14±5%	7.1±5%	7.1±5%
	Weight Per kg/m ²	31.2±5%	31.2±5%	28±5%	28±5%	28.4±5%	28.4±5%
Optical Parameter	Cabinet Material	Aluminum Diecasting	Aluminum Diecasting	Aluminum Diecasting	Aluminum Diecasting	Aluminum Diecasting	Aluminum Diecasting
	Brightness (cd/m ²) Before Calibration	>5,500	>5,500	>5,500	>5,500	>5,500	>5,500
	Brightness (cd/m ²) After Calibration	>5,000	>5,000	>5,000	>5,000	>5,000	>5,000
	Contrast Ratio	4,000 : 1	4,000 : 1	4,000 : 1	4,000 : 1	4,000 : 1	4,000 : 1
	Front Mask for C/R	Mask	Mask	Mask	Mask	Mask	Mask
	Horizontal Viewing Angle	160°	160°	160°	160°	160°	160°
	Vertical Viewing Angle	160°	160°	160°	160°	160°	160°
	Refresh Rate (Hz)	3,840 Hz	3,840 Hz	3,840 Hz	3,840 Hz	3,840 Hz	3,840 Hz
	Bit-depth (bit)	14 bit	14 bit	14 bit	14 bit	14 bit	14 bit
	Scan rate (lines)	21	16	21	16	21	16
	Colours	4.4 trillion	4.4 trillion	4.4 trillion	4.4 trillion	4.4 trillion	4.4 trillion
	Electrical Parameter	Color Temperature - Default	6,500K±500K	6,500K±500K	6,500K±500K	6,500K±500K	6,500K±500K
Color Temperature - Adjustable		2,800-16,000K	2,800-16,000K	2,800-16,000K	2,800-16,000K	2,800-16,000K	2,800-16,000K
Average Power Consumption		73 W/panel	65 W/panel	145 W/panel	130 W/panel	73 W/panel	65 W/panel
Max Power Consumption		215 W/panel	190 W/panel	430 W/panel	380 W/panel	215 W/panel	190 W/panel
Max Power Consumption (w/m ²)		860	760	860	760	860	760
Max Power Consumption (w/Cabinet)		215	190	430	380	215	190
Typical Power Consumption (w/m ²)		290	260	290	260	290	260
Typical Power Consumption (w/Cabinet)		73	65	145	130	73	65
Max BTU (BTU/m ²)		1,468	1,297	1,468	1,297	1,468	1,297
Max BTU (BTU/Cabinet)		367	324.25	734	648.5	367	324.25
Typical BTU (BTU/m ²)		495	444	495	444	495	444
Typical BTU (BTU/Cabinet)		124	111	248	222	124	111
Power		AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz
Operation Conditions		Monitoring Function	Temperature and Receiving card	Temperature and Receiving card	Temperature and Receiving card	Temperature and Receiving card	Temperature and Receiving card
	Operating Temp/Humidity	-30 - 50°C / 10% - 90%	-30 - 50°C / 10% - 90%	-30 - 50°C / 10% - 90%	-30 - 50°C / 10% - 90%	-30 - 50°C / 10% - 90%	-30 - 50°C / 10% - 90%
	Storage Temp/Humidity	-30 - 60°C / 10% - 95%	-30 - 60°C / 10% - 95%	-30 - 60°C / 10% - 95%	-30 - 60°C / 10% - 95%	-30 - 60°C / 10% - 95%	-30 - 60°C / 10% - 95%
	Cooling	Self	Self	Self	Self	Self	Self
Certification	IP Rating	Front IP 65, Back IP 65	Front IP 65, Back IP 65	Front IP 65, Back IP 65	Front IP 65, Back IP 65	Front IP 65, Back IP 65	Front IP 65, Back IP 65
	Safety	62368-1, 60950-1	62368-1, 60950-1	62368-1, 60950-1	62368-1, 60950-1	62368-1, 60950-1	62368-1, 60950-1
Service	EMC	Class A	Class A	Class A	Class A	Class A	Class A
	Servicing	Front and Rear	Front and Rear	Front and Rear	Front and Rear	Front and Rear	Front and Rear
Package	Box Dimension, LxHxD(mm) Wooden case	750 x 680 x 580 (8 in 1)	750 x 680 x 580 (8 in 1)	1,080 x 680 x 580 (6 in 1)	1,080 x 680 x 580 (6 in 1)	750 x 680 x 580 (8 in 1)	750 x 680 x 580 (8 in 1)
	Box Volume (m ³)	0.296	0.296	0.426	0.426	0.296	0.296
	Package Weight Including Cabinets (kg)	88.4 (1 Box & 8 cabinets)	88.4 (1 Box & 8 cabinets)	120 (1 Box & 6 cabinets)	120 (1 Box & 6 cabinets)	82.8 (1 Box & 8 cabinets)	82.8 (1 Box & 8 cabinets)
	Box Dimension, LxHxD (mm) Flight case	850 x 740 x 580 (8 in 1)	850 x 740 x 580 (8 in 1)	1,080 x 725 x 620 (6 in 1)	1,080 x 725 x 620 (6 in 1)	850 x 740 x 580 (8 in 1)	850 x 740 x 580 (8 in 1)
	Box Volume (m ³)	0.365	0.365	0.486	0.486	0.365	0.365
	Package Weight Including Cabinets (kg)	81.4 (1 Box & 8 cabinets)	81.4 (1 Box & 8 cabinets)	110 (1 Box & 6 cabinets)	110 (1 Box & 6 cabinets)	75.8 (1 Box & 8 cabinets)	75.8 (1 Box & 8 cabinets)
Curve Installation	Accessory in Box	Module, Sending box, Receiving card, Hub boards, SMPS, Screws, Cables, And so on.		Module, Sending box, Receiving card, Hub boards, SMPS, Screws, Cables, And so on.		Module, Sending box, Receiving card, Hub boards, SMPS, Screws, Cables, And so on.	
	Curve Support (-:concave +:convex) (°)	N/A	N/A	N/A	N/A	-90° - + 90°	-90° - + 90°
Etc. Info.	Max Stacking	20EA	20EA	10EA	10EA	20EA	20EA
	Max Hanging	16EA	16EA	8EA	8EA	16EA	16EA

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