



*Samsung LED Signage installed at SoFi Stadium in Los Angeles, USA

Outdoor LED Signage

XHB-F series

Make a lasting impression

Introducing Samsung XHB-F series: a reliable, attention-grabbing outdoor display built to stand out on gameday. Featuring consistent 8,000nit brightness day and night, the XHB-F series delivers immersive content to delight spectators anytime, anywhere. The new Z-clip system drastically simplifies installation while two handles on the top of the cabinet allow easy lifting of the lid for quick and easy top service support. The cabinet can only be opened with a key, preventing unauthorized access and unforeseen accidents. The XHB-F series runs at just 700 W/m², reducing power consumption up to 22.2% compared with conventional products.

Key features



Brilliant Visuals

Featuring 8,000nit brightness and Samsung's powerful S-box support, the XHB-F series illuminates the surrounding area in any weather or lighting conditions.



Improved Energy Efficiency

XHB-F series runs at just 700 W/m², reducing power consumption up to 22.2% compared with conventional products for more sustainable business operation.



Z-clip Installation

The new Z-clip system allows effortless installation requiring just one or two Z-clips to be attached to the top and bottom depending on the stadium environment.



Fast Top Service Support

The XHB-F provides simple, quick top service maintenance with two handles on top of the cabinet lid and stoppers inside.



Cabinet Lock

The XHB-F series cabinet can only be opened with a key, blocking outsiders from tampering with the display and preventing unforeseen accidents.



IP66/66 Validated Design

With a full outdoor IP66/66 validated design, the XHB-F series delivers continuous performance regardless of the environment.

*Figure is based on XHB-F cabinet and against Samsung's XPR-S outdoor LED signage.

Specifications

Model		XHB-FA	XHB-FB
		LHX10THF230	LHX10THF220
Physical Parameter	Pixel Pitch	10.78 mm	10.78 mm
	Pixel Configuration	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue
	Diode Type	Surface Mount Device (SMD)	Surface Mount Device (SMD)
	Diode Info	XD Au	XD Au
	Configuration (W x H, Per cabinet)	64 x 96 pixels	64 x 64 pixels
	Diode Density (Per m ²)	8,605/m ²	8,605/m ²
	Dimensions (mm, W x H x D, Per cabinet)	689.5 x 1,117.5 x 235 mm	689.5 x 772.5 x 235 mm
	Dimensions (Inch, Inch x D, Per cabinet)	49.0 x 9.2 in.	38.4 x 9.2 in.
	No. of Modules (W x H, Per cabinet)	2 x 3	2 x 2
	Weight (kg, Per cabinet/Per m ²)	32.2/45.1	24.2/50.9
	Cabinet Construction	Aluminum	Aluminum
Optical Parameter	Brightness	8,000 nit	8,000 nit
	Contrast Ratio	8,000:1	8,000:1
	Viewing angle - Horizontal	160° (+/- 80°)	160° (+/- 80°)
	Viewing angle - Vertical	107° (+37/-70°)	107° (+37/-70°)
	Video Processing	24 bit, 100% digital	24 bit, 100% digital
	Color Processing	16 bit per color (48 bit total)	16 bit per color (48 bit total)
	Number of colors	281 trillion colors	281 trillion colors
	Gray Scale Intensity	65,536 levels of red, green, and blue	65,536 levels of red, green, and blue
	Dimming Capability	256 levels of brightness	256 levels of brightness
	Color temperature - Default	6,500K	6,500K
Electrical Parameter	Video Rate	60 frames per second	60 frames per second
	Input Power Range	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
	Power consumption - Max (/cab)	480	330
	Power consumption - Typ (/cab)	160	110
	Power consumption - Max (/m ²)	680	695
	Power consumption - Typ (/m ²)	227	231
	BTU - Max (BTU/cab)	1,637	1,126
	BTU - Typ (BTU/cab)	546	376
	BTU - Max (BTU/m ²)	2,320	2,372
	BTU - Typ (BTU/m ²)	773	768
	Refresh Rate	7,680 Hz	7,680 Hz
	Calibration White Point	D65 - 6500K	D65 - 6500K
	Calibration Standards	REC 709, REC 2020 or Max Gamut	REC 709, REC 2020 or Max Gamut
	Operation Conditions	Working Temperature	0°C to +50°C (-40°F to 131°F)
Cooling		Fanless	Fanless
IP Rating		Front IP66 / Rear IP66	Front IP66 / Rear IP66
LED Lifetime		100,000 hours	100,000 hours
Monitoring Function		Temperature, Module working, F/W version, Interface status, Power status, LOD, Cal data on module	Temperature, Module working, F/W version, Interface status, Power status, LOD, Cal data on module
Certification	Certification	CE, UL/ULC listed	CE, UL/ULC listed
	Safety	62368-1, 60950-1, UL48	62368-1, 60950-1, UL48
Service	Service	Top	Top
Package	Box Dimension (mm / in., W x H x D)	1,285 x 832 x 532 mm / 50.6 x 32.8 x 20.9 in.	940 x 832 x 532 mm / 37 x 32.8 x 20.9 in.
	Package Weight (kg / lbs., Per cabinet)	43 kg / 94.8 lbs.	32.4 kg / 71.4 lbs.

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