As businesses seek new avenues to attract customers, LED displays have emerged as a more versatile upgrade to static analog signage.

Some business owners have avoided making the switch to LED, fearing they do not have the time or technical expertise to successfully implement a LED option. Samsung's XPR-B Series LED Solution alleviates these concerns with an all-in-one display package that includes LED signage and content management solution.

With a stress-free installation of uni-body cabinet structure, businesses do not need to worry about a cumbersome setup. Each LED display comes with an integrated content management solution that allows users to conveniently create, schedule and deploy exclusive content that is inviting to customers. Samsung's reliable, ready-made displays simplify the LED transition process and generate new possibilities to help small businesses stand out among their competitors.

The XPR-B is an all-in one package that reduces installation time and eases on-site setup. The display is designed with a low profile to blend in and look natural. Banner CMS software that comes with the XPR-B display makes it easy to create, schedule and deploy content. You can easily monitor and manage display performance through a single central interface.

Front ventilation

The XPR-B Series' unique ventilation system has air intake and exhaust all through the front face of the display. This removes the burden of side and rear air flow requirements. This critical innovation allows for flush mounting of the cabinet within a structure.

Low profile design

XPR-B Series' cabinet increases the aesthetics of the display by reducing the visual presence of the cabinet. At only 5" deep, the display integrates within the surrounding structure; to put is simply, viewers see the message, not the cabinet.

Ease of installation

Incorporating the XPR-B series into any business is straightforward and stress-free. With a distinctive cabinet design, the display is tailored to the user's needs with a flexible and effortless installation. In addition, users may obtain the LED Signage in as little as two weeks.

Designed to impress

The XPR-B series is designed with a sleek style and slim depth which is attributed to its front ventilation system and captive mounting points. This slim design does not distract audiences away from the content presented and complements the site where the displays installed.

Option for Double-Sided Display

With any highway billboard or local message center that is on the street, it is crucial to get a double sided display to have the ability to advertise to each direction of traffic. A double sided LED display allows you to double the amount viewers of your display. Installing and running a double-sided display is just as easy as one. You can manage the displays as one or separately depending on your application.
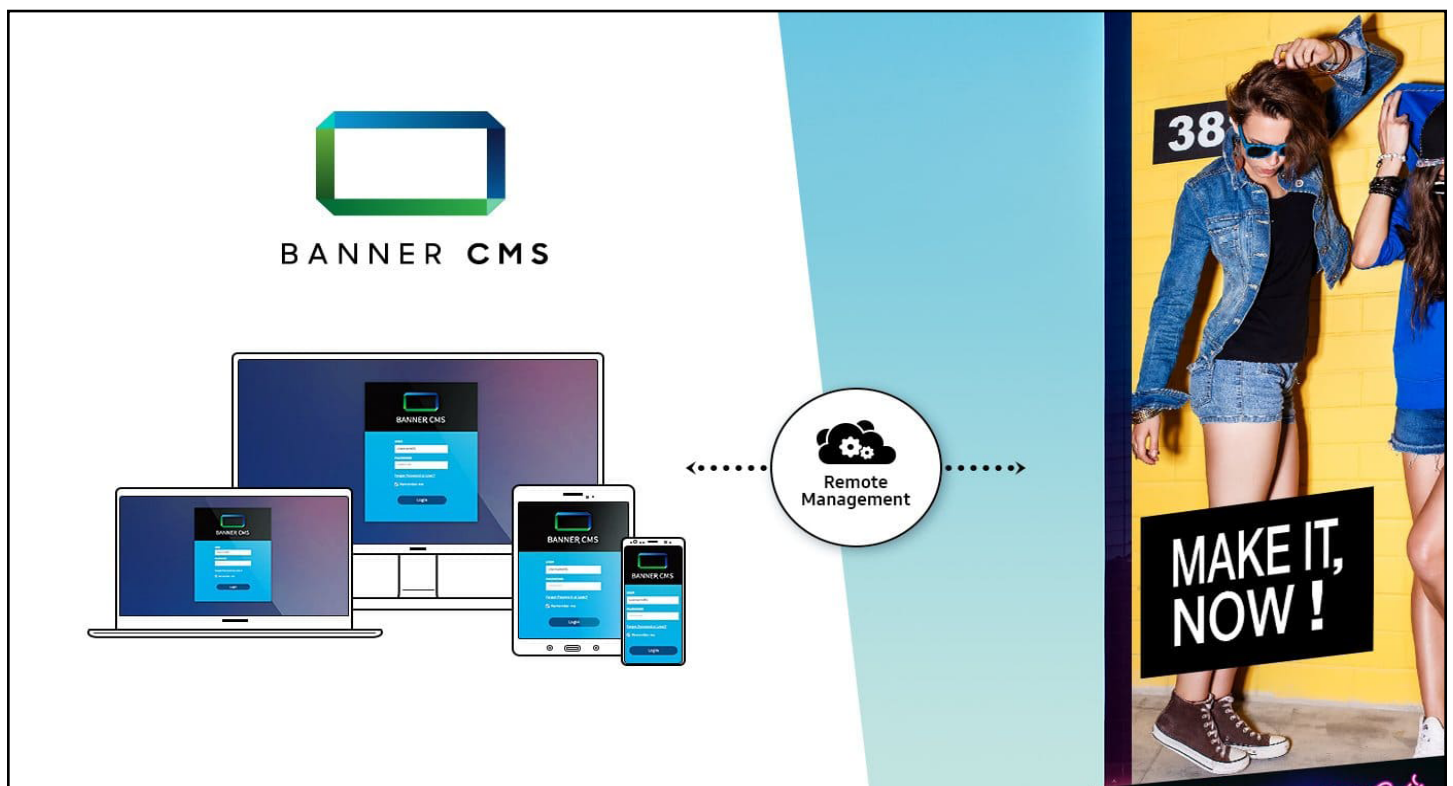

Convenient and easy to use

The Banner CMS platform is engineered for simplicity, making it easy for users to prepare, schedule and deploy custom content. Compatible with personal devices, including tablets, PCs and smartphones, Banner CMS empowers users to work within the platform anywhere, anytime. With minimal implementation and training required, users can begin building captivating content immediately.

Integrated operational safeguards

The XPR-B series features multiple operational safeguards to prevent errors and interruptions. The display protects against power disruption as each power supply unit is coupled with a back-up addition.

Cloud Based Management

An essential component of the XPR-B Series offering, the Banner Content Management Solution (Banner CMS) platform enables users to conveniently create and share custom messaging across their display network. Banner CMS is compatible with a range of personal devices and content file formats, introducing a new range of LED-ready visual possibilities for content managers. Additionally, users can leverage the Banner CMS platform's centralized management hub to update and schedule content and monitor overall operational performance in a single location.

XPR-B Specifications

	Model Name	XPR-B 8mm (All Sizes)	XPR-B 10mm (All Sizes)	XPR-B 16mm (All Sizes)
Physical Parameter	Pixel Pitch	8.333mm	10.416mm	16.666mm
	Pixel Configuration	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue
	Diode Density	14,400 m2	9,216 m2	3,600 m2
	Diode Type	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Discrete lamp
	Cabinet Construction	Aluminum	Aluminum	Aluminum
Optical Parameter	Brightness	7,000 nit	7,000 nit	7,500 nit
	Contrast Ratio	7,000:1	7,000:1	7,500:1
	Viewing angle - Horizontal	160° (+/- 80°)	160° (+/- 80°)	160° (+/- 80°)
	Viewing angle - Vertical	90° (+25/- 65°)	90° (+25/- 65°)	90° (+25/- 65°)
	Video Processing	24 bit, 100% digital	24 bit, 100% digital	24 bit, 100% digital
	Color Processing	16 bit per color (48 bit total)	16 bit per color (48 bit total)	16 bit per color (48 bit total)
	Number of colors	281 trillion colors	281 trillion colors	281 trillion colors
	Dimming Capability	256 levels of brightness	256 levels of brightness	256 levels of brightness
	Color Wavelength	red: 630nm, green: 530nm, blue: 468nm	red: 630nm, green: 530nm, blue: 468nm	red: 630nm, green: 530nm, blue: 468nm
	Color temperature - Default	6,500K	6,500K	6,500K
	Color temperature - Adjustable	4,500 – 9,000K	4,500 – 9,000K	4,500 – 9,000K
Electrical Parameter	Video Rate	60 frames per second	60 frames per second	60 frames per second
	Animation Rate	60 frames per second	60 frames per second	60 frames per second
	Input Power Range	100/240 volts, 50/60 Hz	100/240 volts, 50/60 Hz	100/240 volts, 50/60 Hz
	Refresh rate	7680hz	7680hz	7680hz
	Power Redundancy	Standard, Load sharing	Standard, Load sharing	Standard, Load sharing
	Calibration White Point	D65 – 6500K	D65 – 6500K	D65 – 6500K
	Calibration Standards	REC 709, REC 2020 or Max Gamut	REC 709, REC 2020 or Max Gamut	REC 709, REC 2020 or Max Gamut
Operation Conditions	Working Temperature	-40°C to 55°C (-40°F to 131°F)	-40°C to 55°C (-40°F to 131°F)	-40°C to 55°C (-40°F to 131°F)
	Cooling	Front Ventilated, Quiet running vent fans	Front Ventilated, Quiet running vent fans	Front Ventilated, Quiet running vent fans
	LED Lifetime	100,000 hours	100,000 hours	100,000 hours
	Monitoring function	Temperature, module working, F/W version, webcam, interface status, power status, LOD, cal data on module, blanking	Temperature, module working, F/W version, webcam, interface status, power status, LOD, cal data on module, blanking	Temperature, module working, F/W version, webcam, interface status, power status, LOD, cal data on module, blanking
Certification	Certification	CE, UL / ULC listed	CE, UL / ULC listed	CE, UL / ULC listed
Service	Service	Front Service Only	Front Service Only	Front Service Only

XPR-B Size Options

	Sizes	Model Codes	Matirx (Pixels)	Dimensions (inch, inchxD, per cabinet)	Net Weight (per cabinet)	Input Power Range	Power consumption – Max (W)	Power consumption – Typical (W)
Size Options (modules) (Each come in 8mm, 10mm, or 16mm)	**8w x 3h** (Single Face or Double Face)	CY-08VTB380/PZ (8mm, SF) CY-08VTD380/PZ (8mm, DF) CY-10VTB380/PZ (10mm, SF) CY-10VTD380/PZ (10mm, DF) CY-16TTB380/PZ (16mm, SF) CY-16TTD380/PZ (16mm, DF)	**8mm:** 240x90 **10mm:** 192x72 **16mm:** 120x45	81.88 inches x 33.23 inches	73.2 kg (161.4 lbs)	100/240 volts, 50/60 Hz	**8mm:** 1600 **10mm:** 1750 **16mm:** 1300	**8mm:** 528 **10mm:** 577 **16mm:** 429
	9w x 3h (Single Face or Double Face)	CY-08VTB390/PZ (8mm, SF) CY-08VTD390/PZ (8mm, DF) CY-10VTB390/PZ (10mm, SF) CY-10VTD390/PZ (10mm, DF) CY-16TTB390/PZ (16mm, SF) CY-16TTD390/PZ (16mm, DF)	**8mm:** 270x90 **10mm:** 216x72 **16mm:** 135x45	91.73 inches x 33.23 inches	97.7 kg (215.3 lbs)	100/240 volts, 50/60 Hz	**8mm:** 2100 **10mm:** 2300 **16mm:** 1300	**8mm:** 693 **10mm:** 759 **16mm:** 429
	8w x 4h (Single Face or Double Face)	CY-08VTB480/PZ (8mm, SF) CY-08VTD480/PZ (8mm, DF) CY-10VTB480/PZ (10mm, SF) CY-10VTD480/PZ (10mm, DF) CY-16TTB480/PZ (16mm, SF) CY-16TTD480/PZ (16mm, DF)	**8mm:** 240x120 **10mm:** 192x96 **16mm:** 120x60	81.88 inches x 43.06 inches	97.6 kg (215.17 lbs)	100/240 volts, 50/60 Hz	**8mm:** 2000 **10mm:** 2000 **16mm:** 1000	**8mm:** 660 **10mm:** 660 **16mm:** 330
	9w x 4h (Single Face or Double Face)	CY-08VTB490/PZ (8mm, SF) CY-08VTD490/PZ (8mm, DF) CY-10VTB490/PZ (10mm, SF) CY-10VTD490/PZ (10mm, DF) CY-16TTB490/PZ (16mm, SF) CY-16TTD490/PZ (16mm, DF)	**8mm:** 270x120 **10mm:** 216x96 **16mm:** 135x60	91.73 inches x 43.06 inches	164.8 kg (363.32 lbs)	100/240 volts, 50/60 Hz	**8mm:** 2600 **10mm:** 2850 **16mm:** 1900	**8mm:** 858 **10mm:** 940 **16mm:** 627
	12w x 4h (Single Face or Double Face)	CY-08VTB4C0/PZ (8mm, SF) CY-08VTD4C0/PZ (8mm, DF) CY-10VTB4C0/PZ (10mm, SF) CY-10VTD4C0/PZ (10mm, DF) CY-16TTB4C0/PZ (16mm, SF) CY-16TTD4C0/PZ (16mm, DF)	**8mm:** 360x90 **10mm:** 288x72 **16mm:** 180x45	121.25 inches x 43.06 inches		100/240 volts, 50/60 Hz	**8mm:** 4000 **10mm:** 4200 **16mm:** 2200	**8mm:** 1320 **10mm:** 1386 **16mm:** 726
	12w x 6h (Single Face or Double Face)	CY-08VTB6C0/PZ (8mm, SF) CY-08VTD6C0/PZ (8mm, DF) CY-10VTB6C0/PZ (10mm, SF) CY-10VTD6C0/PZ (10mm, DF) CY-16TTB6C0/PZ (16mm, SF) CY-16TTD6C0/PZ (16mm, DF)	**8mm:** 360x180 **10mm:** 288x144 **16mm:** 180x90	121.25 inches x 62.75 inches	219.7 kg (484.35 lbs)	100/240 volts, 50/60 Hz	**8mm:** 4500 **10mm:** 4500 **16mm:** 2250	**8mm:** 1500 **10mm:** 1500 **16mm:** 750