



# An easy solution for schools to improve communication with students and parents.

## Easily broadcast important information.

Samsung's outdoor LED XPR-B display offers a sleek, brilliant display that allows school districts to control multiple displays at once. XPR-B displays let your school provide health related information, and promote community events to students and parents.

With outdoor LED displays you have the ability to broadcast emergency messages during fires, tornadoes, shooting or other emergencies. This is a great medium to broadcast information fast for students and faculty to see.

Our cloud based content makes it easy and convenient to control the content from anywhere. So if you are a school district you can have all of the same content on multiple displays at each school location.

## Key Features



### Build to withstand all weather

The Samsung XPR-B LED display features an advanced heat dissipation mechanism to prevent overheating. The cabinet and components inside are waterproof for added reliability in any weather conditions.



### Multiple operational safeguards

All modules are connected to each other, so an issue with a single control board won't have an impact on the displayed content. The screens also protect against interruptions resulting from power supply failure. Our XPR-B displays are not affected from the power disruption as each unit is coupled with a back-up.



### Longer life and image quality

Our design is more robust, leading to longer life and better image quality over time. Through the use of cutting edge design and high quality materials we create a cost effective display that is built to last.



### Cloud-based content

Samsung provides cloud-based content and display management with AI driven tools to help you create content that will not only draw your audience in but impress them with your brand.



### Warranty and service support

We have an outstanding warranty and service support call center. Our US based Network Operations Center (NOC) is open 24/7/365.



### Exceptional picture quality

The XPR-B series delivers clear, brilliant images and prevents interruptions, no matter where they are installed. Eye-catching brightness combined with a high refresh rate, means content is clearly visible in any weather or lighting conditions.

# 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 m <sup>2</sup>	9,216 m <sup>2</sup>	3,600 m <sup>2</sup>
	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
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	Matrix (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 55 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



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