



Samsung SMART Signage QBR Series

Display any content in ultra-high definition with incredibly rich color on slim, efficient signage.

About Samsung Electronics Co., Ltd.

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SMART Signage

For more information about Samsung SMART Signage QBR Series Displays, visit www.samsung.com/business or www.samsung.com/displaysolutions

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Through intelligent UHD upscaling technology, Samsung's QBR series performs edge restoration and noise reduction to deliver UHD picture quality even with lower resolution content. Backed by Tizen 4.0, the QBR series also provides reinforced capability with multiple web formats and secured protection. Additionally, its new slim design simplifies wall mounting and ensures seamless installation.

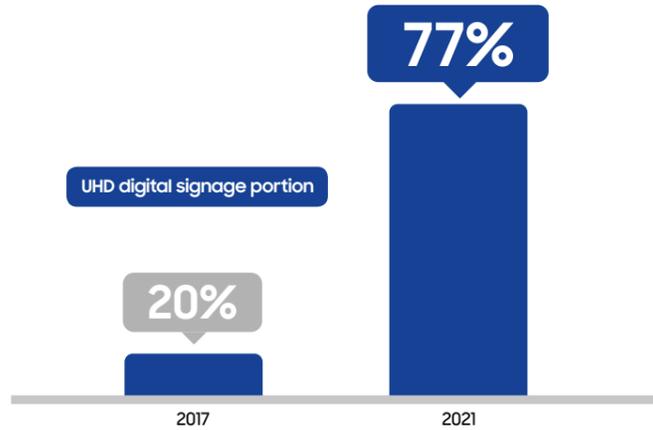
Highlights

- Engage customers with lifelike images through ultra high-definition resolution
- Deliver UHD-level picture quality even with lower resolution content through innovative UHD upscaling technology and unique picture-enhancing features
- Dynamic Crystal Color allows viewers to enjoy a wider spectrum of colors, up to one billion shades
- New symmetrical, slim design simplifies installation and complements any environment.
- Secure, PC-free operation through Knox and rigid three-layer protection

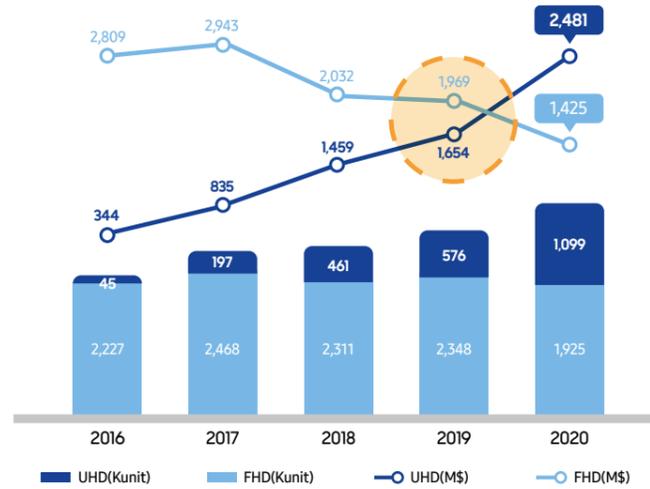
Industry trend

With visual display technology improving across devices, viewers have developed an ever-growing expectation for better picture quality. Additionally, the market has been flooded with a wide variety of color technologies and it's becoming increasingly important for businesses to have rich and vivid display capabilities. As UHD resolution continues to grow in popularity, it is essential for businesses to deliver superb picture quality for their customers. Low quality displays and signage can create negative perceptions of a business. While much content is still being produced at a lower resolution, through Intelligent UHD upscaling technology, Samsung's QBR series is able to upscale even the lowest resolution content to UHD picture quality standards.

UHD resolution is must-have feature in the future UHD sales forecasted to exceed FHD in 2019



* Source : IHS '18.2Q Final+Forecast(\$)



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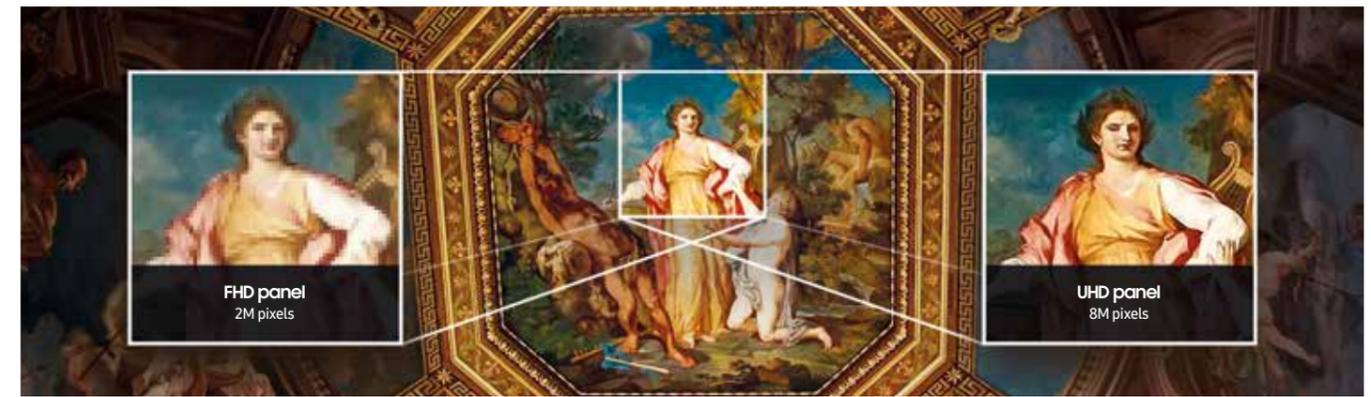
* Note : Standalone digital signage only
Consumer TVs, along with Commercial Lite and Hospitality TVs used for signage are excluded.

Why Samsung's QBR series?

Samsung's superior visual display technology has positioned them as the industry leader in the digital signage market for a decade and in the TV market for 12 years. As an expert in picture quality in the display industry, Samsung is able to deliver best-in-class picture quality through their new QBR series. The signage provides rich and flawless colors, sleek and durable design, powerful performance through Tizen 4.0 and secured protection. Samsung's QBR series is also able to upscale even the lowest resolution content to UHD picture quality. For commercial displays, this technology advancement means highly visible signage with unmatched accuracy to help capture the attention of potential customers. It also means savings both in cost and time for businesses who can produce content more inexpensively at a lower resolution and still display it in stunning UHD quality.

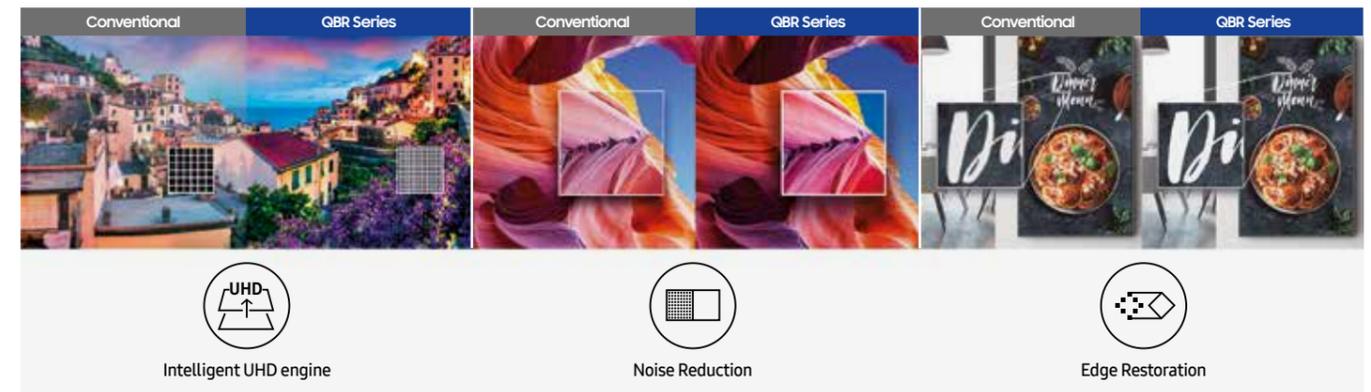


Key features



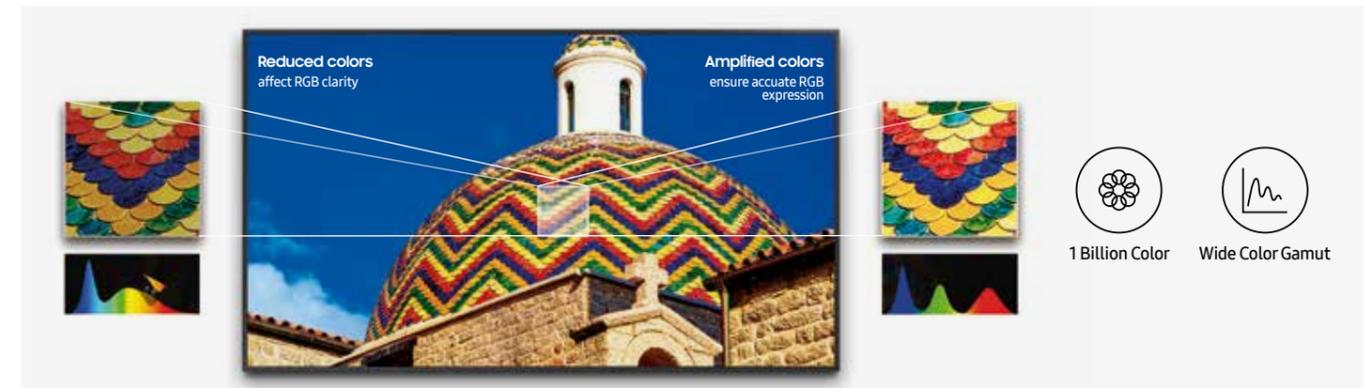
Incredible 4K picture quality

Samsung's new QBR series is able to capture customer attention by providing an incredibly clear picture, showcasing lifelike images and intricate details better than ever before thanks to ultra high-definition 4K resolution.



Intelligent UHD upscaling

Samsung's global leadership in display technology and picture quality spans more than a decade. Thanks to superior semi-conductor technology, Samsung has developed the most powerful video processor available. Additionally, intelligent UHD upscaling technology is a cutting-edge solution based on Samsung's proprietary intelligent UHD engine that allows content developed at a lower resolution to be elevated to UHD-level quality. It also performs edge restoration and noise reduction to optimize on-screen text and imagery with crisp edges and fine detail.



Dynamic crystal color

Dynamic Crystal Color is what brings the incredible, lifelike color to Samsung displays. Using 10-bit processing, the displays are able to showcase a wider spectrum of colors — up to a billion different shades — capturing subtle differences for flawless color expression, critical to businesses in ensuring brand consistency across communication channels. The QBR series also features HDR10+ functionality that converts standard definition (SDR) content to HDR quality for sharper contrast and more vivid colors.

Key features



Slim and symmetrical design

The all-new slim and symmetrical design of the QBR series significantly simplifies wall mounting the display and ensures installation is a seamless process. The display's power inlet direction has been redesigned to sit flush against the wall. The new design sets guarantees a long life cycle ensuring the QBR series will stand the test of time.



Powerful, all-in-one solution

The Samsung SMART Signage Platform (SSSP) is an open-source, all-in-one solution embedded in Samsung SMART signage that simplifies installation and maintenance. With SSSP, there is no need for any external devices to communicate with the server or play digital media enjoying easy development, reinforced capability with multi-ple web formats, and secured protection.

Clean cable management

In a corporate or retail environment, the back of a display is often visible to customers. With the QBR series' new cable guide feature retailers can tuck messy cables away from view. This allows for a clean and more visually-appealing customer shopping experience.



Wi-Fi and Bluetooth built-in

The QBR series features a nearly endless range of business use-cases thanks to built-in Wi-Fi and Bluetooth. Wireless connectivity allows for personalized and interactive services including enabling integration with beacon technology in store, while also simplifying how businesses showcase content.

* Image is for illustrative purposes only, specific application or program may have to be developed for the depicted usage scenario.

Specifications

Model		QB43R	QB49R	QB55R	QB65R	QB75R	
Panel	Diagonal Size	43	49	55	65	75	
	Class	42.5	48.5	54.6	64.5	74.5	
Panel	Type	Edge LED BLU					
	Resolution	UHD (3840 x 2160)					
	Pixel Pitch (mm)	0.2451 x 0.2451	0.093 x 0.279	0.105 x 0.315	0.372 x 0.372	0.42975 x 0.42975	
	Active Display Area	941.184 (H) x 529.416 (V)	1073.78(H) x 604.00(V)	1209.6(H) x 680.4(V)	1428.48 (H) x 928.52 (V)	1650.24 (H) x 928.26 (V)	
	Brightness(Typ.)	350	350	350	350	350	
	Contrast Ratio (Typ.)	5000:1	4700:1	4700:1	4000:1	4000:1	
	Viewing Angle(H/V)	178/178	178/178	178/178	178/178	178/178	
	Response Time (G to G)	8ms(Typ.)	8ms(Typ.)	8ms(Typ.)	8ms(Typ.)	8ms(Typ.)	
	Display Colors	16.7M	16.7M	16.7M	16.7M	16.7M	
	Color Gamut	92%	92%	92%	92%	92%	
	Operation Hour	16/7	16/7	16/7	16/7	16/7	
	Haze	2%	2%	2%	2%	2%	
Display	Dynamic C/R	MEGA	MEGA	MEGA	MEGA	MEGA	
	H-Scanning Frequency	30 ~ 81kHz					
	V-Scanning Frequency	48 ~ 75Hz					
	Maximum Pixel Frequency	594MHz	594MHz	594MHz	594MHz	594MHz	
Sound	Speaker Type	Built in Speaker(10W + 10W)					
	INPUT	RGB VIDEO HDCP AUDIO USB	DVI-D HDMI 2.0 (2) HDCP 2.2 Stereo Mini Jack, DVI/HDMI/Audio(Common)	DVI-D HDMI 2.0 (2) HDCP 2.2 Stereo Mini Jack, DVI/HDMI/Audio(Common)			
Connectivity	OUTPUT	RGB VIDEO AUDIO Power Out USB	N/A N/A Stereo Mini Jack N/A	N/A N/A Stereo Mini Jack N/A	N/A N/A Stereo Mini Jack N/A	N/A N/A Stereo Mini Jack N/A	
	EXTERNAL CONTROL	RS232C(in/out) thru stereo jack, RJ45					
Power	EXTERNAL SENSOR	IR	IR	IR	IR	IR	
	Tuner	N/A	N/A	N/A	N/A	N/A	
Power	Type	Internal	Internal	Internal	Internal	Internal	
	Power Supply	AC100 - 240 V~ (+/-10%), 50/60 Hz					
	Power Consumption	Max[W/h]	TBU	138	143	TBU	TBU
		Typical[W/h]	TBU	103	108	TBU	TBU
		Rating[W/h]	TBU	125	130	TBU	TBU
		BTU(Max)	TBU	351.2	487.6	TBU	TBU
		Sleep mode	0.5	0.5	0.5	0.5	0.5
Off mode		N/A	N/A	N/A	N/A	N/A	
Mechanical Spec	Dimension(mm)	Set Package	1099.2 x 631.5 x 46.3 1247 x 772 x 152	1235.1 x 707.9 x 46.3 1402 x 858 x 163	1453.9 x 831.0 x 46.3 1611 x 973 x 185	1681.1 x 960.1 x 49.7 1871 x 1127 x 223	
	Weight (kg)	Set Package	10 13.3	13.5 18	18.1 23.6	24.9 33.3	
	VESA Mount	200 X 200	200 X 200	200 X 200	400 X 400	400 X 400	
	Stand Type	Foot Stand (Optional)	Foot Stand (Optional)	Foot Stand (Optional)	No	No	
	Bezel Width (Top/Side/Bot) (mm)	9.2mm(U/L/R), 11.2mm(B)	9.2mm(U/L/R), 11.2mm(B)	9.2mm(U/L/R), 11.2mm(B)	9.2mm(U/L/R), 11.2mm(B)	11.5mm(U/L/R), 12.5mm(B)	
	Operating Temperature	0°C - 40°C					
Operation	Humidity	10-80%	10-80%	10-80%	10-80%	10-80%	
	Key	UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	
Special	H/W	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	
	S/W	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	
Feature	Processor	Coretex A72 1.7GHz Quad-Core CPU					
	On-Chip Cache	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB	
	Memory	2.5GB LPDDR4 1.5GHz 64bit					
	Clock Speed	1.7GHz	1.7GHz	1.7GHz	1.7GHz	1.7GHz	
	Main Memory Interface	2.5GB LPDDR4 1.5GHz 64bit					
	Graphics	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available)	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available)	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available)	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available)	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available)	
	Storage (FDM)	8GB (3.88GB Occupied by O/S, 4.12GB Available)					
	Multimedia	*Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder: AC3 (DD), MPEG	*Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder: AC3 (DD), MPEG	*Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder: AC3 (DD), MPEG	*Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder: AC3 (DD), MPEG	*Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder: AC3 (DD), MPEG	
	IO Ports	USB 2.0					
	Operating System	Tizen 4.0 (VDLinux)					
Certification	Safety	60950-1	60950-1	60950-1	60950-1	60950-1	
	EMC	Class B					
	Environment	ENERGY STAR 70 (USA)	ENERGY STAR 70 (USA)	ENERGY STAR 70 (USA), Epeat	ENERGY STAR 70 (USA), Epeat	ENERGY STAR 70 (USA), Epeat	
Accessories	Included	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	
	Optional	Stand	STN-L4355F	STN-L4355F	STN-L4355F	No	No
		Mount	WMN40705E	WMN40705E	WMN40705E	WMN40705E	WMN42775E
		Specialty	CML400XK	CML400XK	CML400XK	CML450K	WMN65755E
		Media Player	N/A	N/A	N/A	N/A	CML450K