



Samsung SMART Signage QMR 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 QMR Series Displays, visit www.samsung.com/business or www.samsung.com/displaysolutions

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Through intelligent UHD upscaling technology, Samsung's QMR series performs edge restoration and noise reduction to deliver UHD picture quality even with lower resolution content. As an added benefit, the QMR series also features reliable, non-glare panels that provide better visibility from all angles. Backed by Tizen 4.0, the QMR series provides reinforced capability with multiple web formats and secured protection. Additionally, its new slim design simplifies wall mounting and ensures seamless installation.

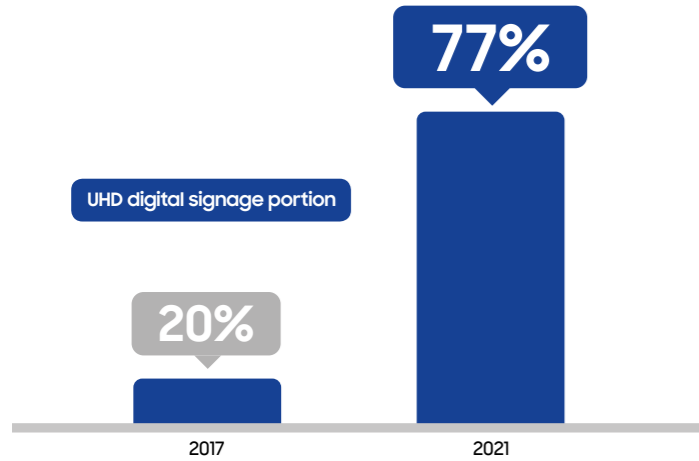
Highlights

- 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
- Reliable, non-glare panels provide better visibility from all angles, anytime of day allowing businesses to deliver accurate information 24/7.

Industry trend

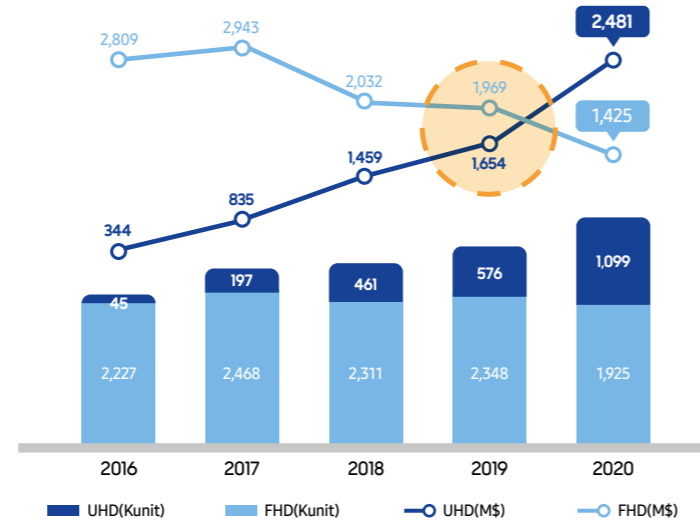
With visual display technology improving across devices, viewers have developed an ever-growing expectation for better picture quality. Additionally, the market has been flooded with a wide variety of color technologies and it's becoming increasingly important for businesses to have rich and vivid display 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 QMR series is able to upscale even the lowest resolution content to UHD picture quality.

UHD resolution is must-have feature in the future



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

UHD sales forecasted to exceed FHD in 2019



* Source : IHS '18.2Q Final+Forecast

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

Why Samsung's QMR 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 QMR series. The signage provides rich and flawless colors, sleek and durable design, powerful performance through Tizen 4.0 and secured protection. Its reliable, non-glare panels provide better visibility from all angles, allowing businesses to deliver important information 24/7. Samsung's QMR 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



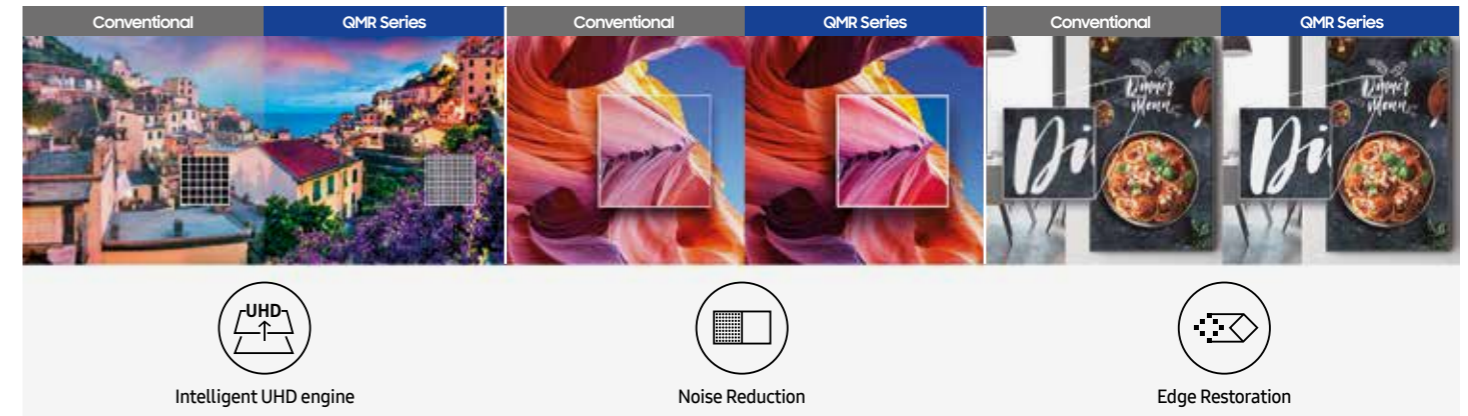
Incredible 4K picture quality

Samsung's new QMR 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.



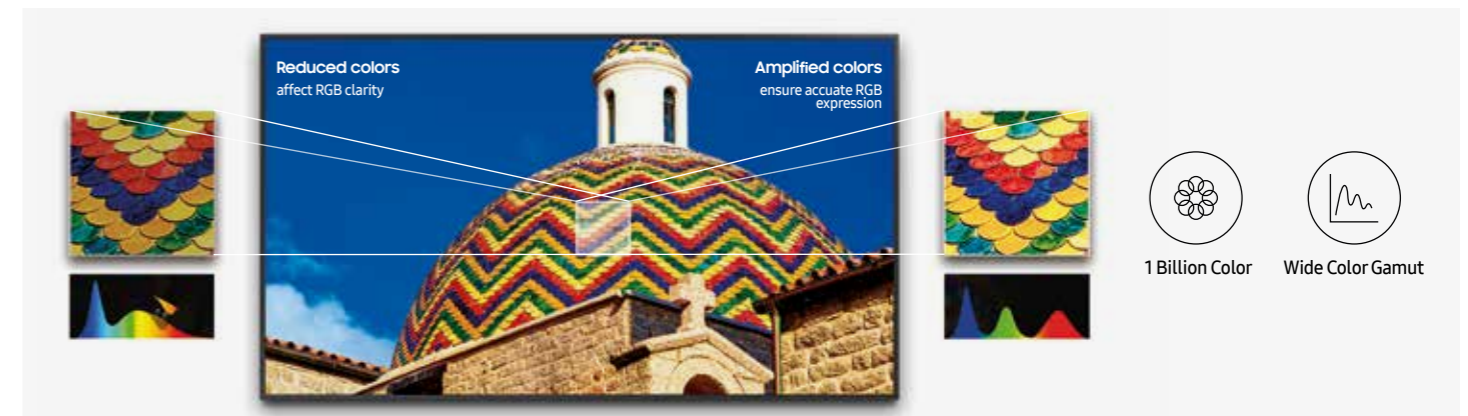
Perfect view with non-glare display

When clear visibility is essential, the QMR series incorporates key features including up to 500 nit brightness and reliable, non-glare panels that provide better visibility from all angles, anytime of day. The display is ideal for locations such as airports and commuter stations where 24/7 access to clear and accurate information is crucial.



Intelligent UHD upscaling

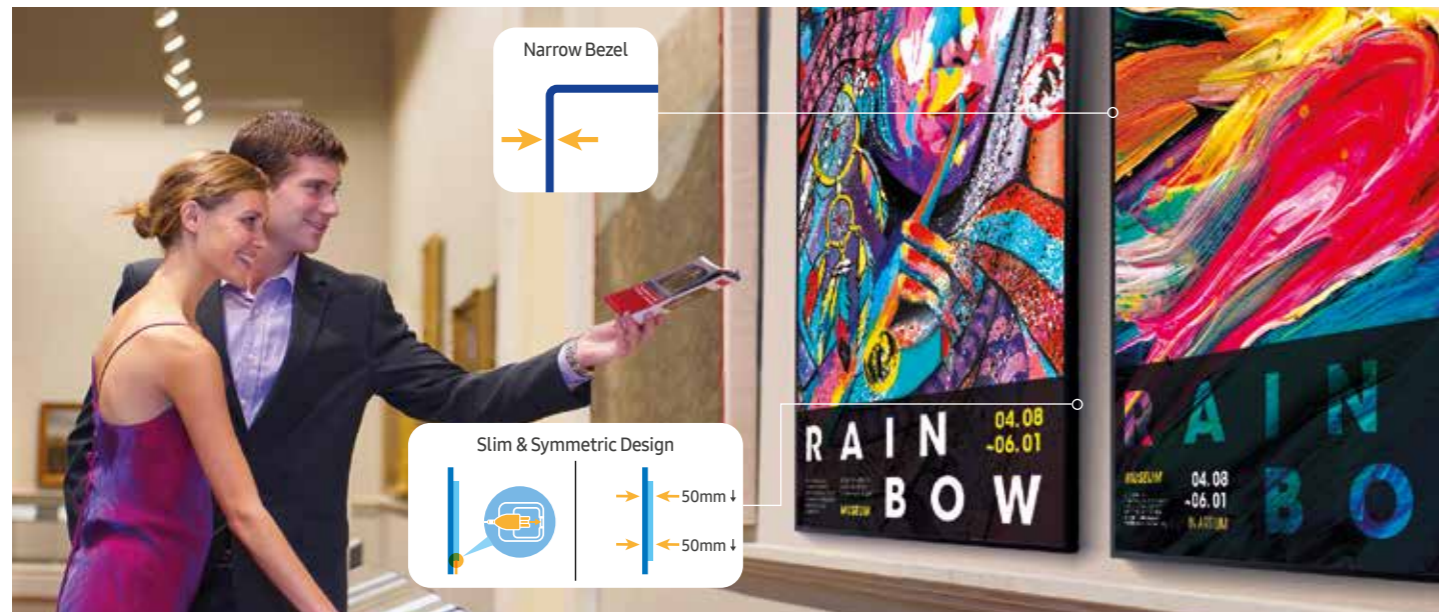
Samsung's global leadership in display technology and picture quality spans more than a decade. Thanks to superior semi-conductor technology, Samsung has developed the most powerful video processor available. Additionally, intelligent UHD upscaling technology is a cutting-edge solution based on Samsung's 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 QMR 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 QMR 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 QMR 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 QMR 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 QMR 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		QM43R	QM49R	QM55R	QM65R	QM75R		
Panel	Diagonal Size	43	49	55	65	75		
	Class	42.5	48.5	54.6	64.5	74.5		
Panel	Type	Edge LED BLU	Edge LED BLU	Edge LED BLU	Edge LED BLU	Edge LED BLU		
	Resolution	UHD (3840 x 2160)	UHD (3840 x 2160)	UHD (3840 x 2160)	UHD (3840 x 2160)	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 828.52 (V)	1650.24 (H) x 928.26 (V)		
	Brightness(Typ.)	500	500	500	500	500		
	Contrast Ratio (Typ.)	4000:1	4000:1	4000:1	4700:1	6000:1		
	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	24/7	24/7	24/7	24/7	24/7		
	Haze	44%	25%	25%	44%	44%		
Display	Dynamic C/R	MEGA	MEGA	MEGA	MEGA	MEGA		
	H-Scanning Frequency	30 ~ 81kHz	30 ~ 81kHz	30 ~ 81kHz	30 ~ 81kHz	30 ~ 81kHz		
	V-Scanning Frequency	48 ~ 75Hz	48 ~ 75Hz	48 ~ 75Hz	48 ~ 75Hz	48 ~ 75Hz		
	Maximum Pixel Frequency	594MHz	594MHz	594MHz	594MHz	594MHz		
Connectivity	Speaker Type	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)		
	INPUT	RGB	DVI-D, Display Port 1.2 (1)	DVI-D, Display Port 1.2 (1)	DVI-D, Display Port 1.2 (1)	DVI-D, Display Port 1.2 (1)	DVI-D, Display Port 1.2 (1)	
		VIDEO	HDMI 2.0 (2)	HDMI 2.0 (2)	HDMI 2.0 (2)	HDMI 2.0 (2)	HDMI 2.0 (2)	
		HDCP	HDCP2.2	HDCP2.2	HDCP2.2	HDCP2.2	HDCP2.2	
		AUDIO	Stereo Mini Jack, DVI, HDMI	Stereo Mini Jack, DVI, HDMI	Stereo Mini Jack, DVI, HDMI	Stereo Mini Jack, DVI, HDMI	Stereo Mini Jack, DVI, HDMI	
		USB	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2	
	OUTPUT	RGB	HDMI 2.0 (Loop-out)	HDMI 2.0 (Loop-out)	HDMI 2.0 (Loop-out)	HDMI 2.0 (Loop-out)	HDMI 2.0 (Loop-out)	
		VIDEO	N/A	N/A	N/A	N/A	N/A	
		AUDIO	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack	
		Power Out	N/A	N/A	N/A	N/A	N/A	
USB		N/A	N/A	N/A	N/A	N/A		
EXTERNAL CONTROL	RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45			
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	AC100 - 240 V- (+/-10%), 50/60 Hz	AC100 - 240 V- (+/-10%), 50/60 Hz	AC100 - 240 V- (+/-10%), 50/60 Hz	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	470.6	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 967.5 x 557.7 x 48.3	1099.2 x 631.5 x 46.3	1235.1 x 707.9 x 46.3	1453.9 x 831.0 x 46.3	1681.1 x 960.1 x 49.7	
		Package	1095 x 676 x 151	1247 x 772 x 152	1402 x 858 x 163	1611 x 973 x 185	1871 x 1127 x 223	
Weight (kg)		Set 10	13.5	18.1	24.9	38.3		
Package		13.3	18	23.6	33.3	49		
VESA Mount		200 X 200	200 X 200	200 X 200	400 X 400	400 X 400		
Protection Glass		N/A	N/A	N/A	N/A	N/A		
Operation	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)		
Operation	Operating Temperature	0°C - 40°C	0°C - 40°C	0°C - 40°C	0°C - 40°C	0°C - 40°C		
	Humidity	10-80%	10-80%	10-80%	10-80%	10-80%		
Feature	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), Video Wall Daisy Chain(HDCP2.2:4EA, HD-CPI.4:7EA), IP5x Rating, Wi-Fi/BT						
		Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)						
		Coretex A72.1.7GHz Quad-Core CPU						
		L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB						
	Special	H/W	UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0					
		S/W	Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA, HD-CPI.4:7EA), IP5x Rating, Wi-Fi/BT					
	Feature	Processor	Coretex A72.1.7GHz Quad-Core CPU					
		On-Chip Cache	L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB					
		Memory	2.5GB LPDDR4 1.5GHz 64bit					
Clock Speed		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)						
Storage (FDM)		*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						
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						
IO Ports	USB 2.0							
Operating System	Tizen 4.0 (VDLinux)							
Certification	Safety	60950-1						
	EMC	TBD						
Environment	Environment	ENERGY STAR 70 (USA)						
	Included	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries						
Accessories	Optional	Stand	STN-L4355F					
		Mount	WMN4070SE					
	Specialty	Media Player	CML400XK					
		Media Player	N/A					