



# Samsung SMART Signage

## QMR Series



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

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.

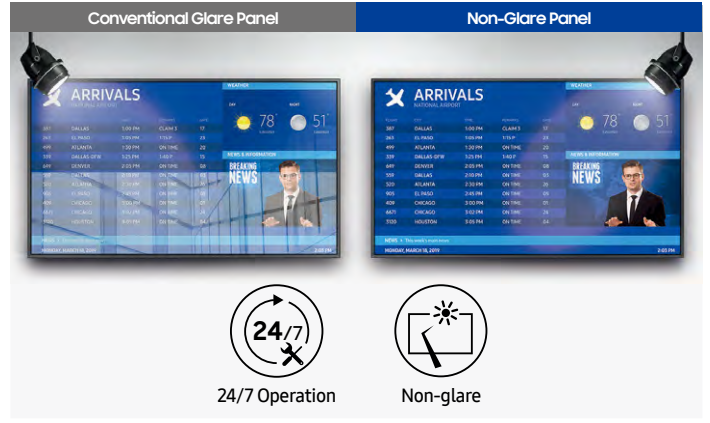
**SAMSUNG**

# Key features



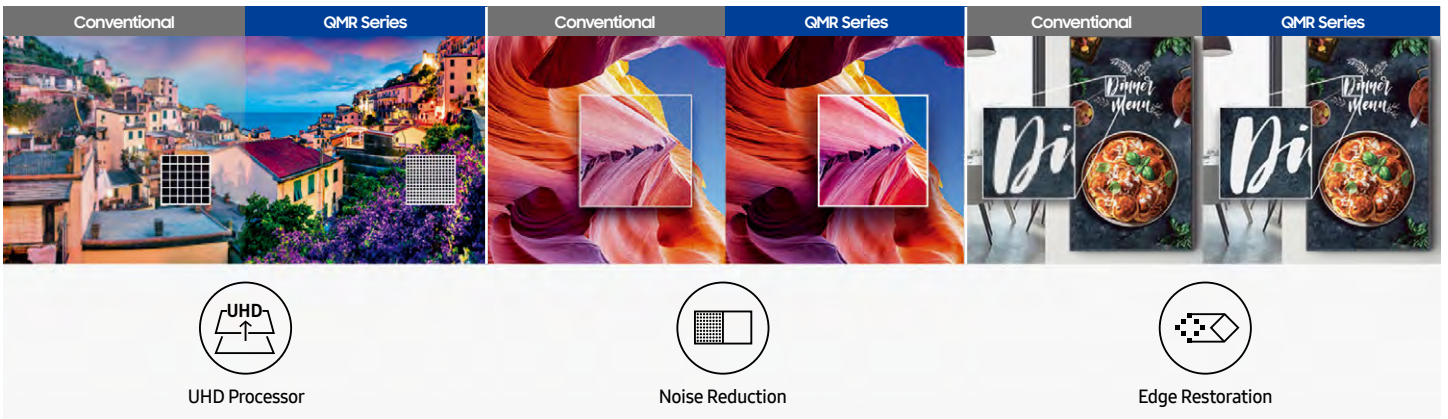
## Incredible 4K picture quality

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 powerful video processor available. Additionally, intelligent UHD upscaling technology is a cutting-edge solution based on Samsung's proprietary UHD Processor 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

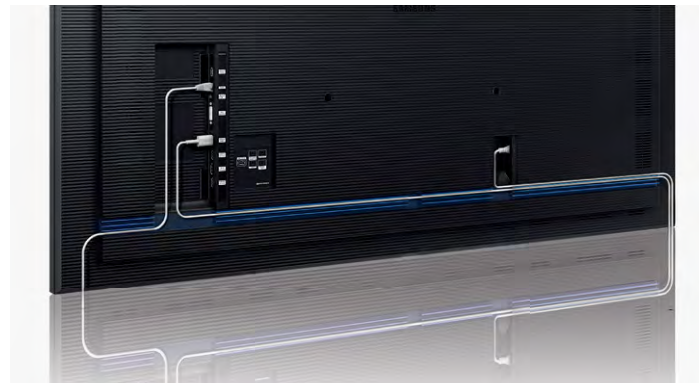
Dynamic Crystal Color is what brings the incredible, lifelike color to Samsung displays. Using 10-bit processing, the displays are able to showcase a wider spectrum of colors — up to a billion different shades — capturing subtle differences for flawless color expression, critical to businesses in ensuring brand consistency across communication channels. The QMR series also features HDR+ 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.



### Clean cable management

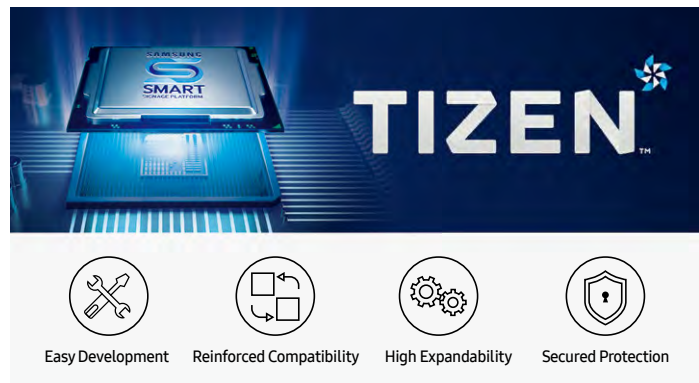
In a corporate or retail environment, the back of a display is often visible to customers. With the QMR series' new cable guide feature retailers can tuck messy cables away from view. This allows for a clean and more visually-appealing customer shopping experience.



### Samsung Workspace secured by Knox

Samsung Workspace is a powerful new feature fortified by proprietary Knox security technology allowing users to create an enhanced virtual collaboration workspace without needing a PC in the room, or any physical connection. Simply connect a keyboard and mouse to the display and immediately get to work accessing a PC remotely or web-based cloud services such as Microsoft Office 365 and VMWare Horizon.

\* Samsung Workspace feature support may vary by region and market conditions.  
\* The scheduled availability of this feature varies by model.



### Powerful, all-in-one solution

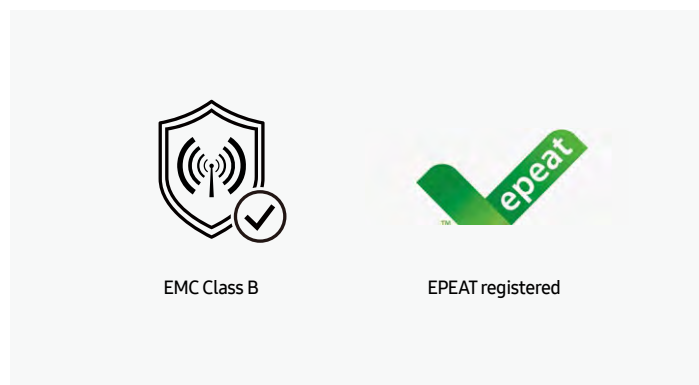
The Samsung SMART Signage Platform (SSSP) is an open-source, all-in-one solution embedded in Samsung SMART signage that simplifies installation and maintenance. With SSSP, there is no need for any external devices to communicate with the server or play digital media enjoying easy development, reinforced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



### 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.



### Industry standard certified

QMR displays are EMC class B compliant, providing a safe and healthy viewing environment by meeting strict standards of electromagnetic wave emission and assuring reliable operation even near other electronic equipment. The displays are also registered by EPEAT, the global ecolabel for IT, confirming the hardware is sustainable for the full product lifecycle, from design and production to energy use and recycling.

Model			QM43R	QM49R	QM55R	QM65R	QM75R		
Panel	Diagonal Size	Class	43	49	55	65	75		
		Measured	42.5	48.5	54.6	64.5	74.5		
	Type	Edge LED BLU							
	Resolution	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	
	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 803.52 (V)	
	Brightness(Typ.)	500		500		500		500	
	Contrast Ratio (Typ.)	4000:1		4000:1		4000:1		4000:1	
	Viewing Angle(H/V)	178/178		178/178		178/178		178/178	
	Response Time (G to G)	8ms(Typ.)		8ms(Typ.)		8ms(Typ.)		8ms(Typ.)	
	Display Colors	16.7M		16.7M		16.7M		16.7M	
	Color Gamut	92%		92%		92%		92%	
	Operation Hour	24/7		24/7		24/7		24/7	
	Haze	44%		25%		25%		44%	
Display	Dynamic C/R		MEGA		MEGA		MEGA		
	H-Scanning Frequency		30 ~ 81kHz		30 ~ 81kHz		30 ~ 81kHz		
	V-Scanning Frequency		48 ~ 75Hz		48 ~ 75Hz		48 ~ 75Hz		
	Maximum Pixel Frequency		594MHz		594MHz		594MHz		
Sound	Speaker Type		Built in Speaker(10W +10W)		Built in Speaker(10W +10W)		Built in Speaker(10W +10W)		
	Speaker Type		Built in Speaker(10W +10W)		Built in Speaker(10W +10W)		Built in Speaker(10W +10W)		
Connectivity	INPUT	RGB	DVI-D, Display Port1.2 (1)		DVI-D, Display Port1.2 (1)		DVI-D, Display Port1.2 (1)		
		VIDEO	HDMI 2.0 (2)		HDMI 2.0 (2)		HDMI 2.0 (2)		
		HDCP	HDCP2.2		HDCP2.2		HDCP2.2		
		AUDIO	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		
	OUTPUT	RGB	HDMI 2.0 (Loop-out)		HDMI 2.0 (Loop-out)		HDMI 2.0 (Loop-out)		
		VIDEO	N/A		N/A		N/A		
		AUDIO	Stereo Mini Jack		Stereo Mini Jack		Stereo Mini Jack		
		Power Out	N/A		N/A		N/A		
		USB	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		
	EXTERNAL SENSOR		IR		IR		IR		
	Tuner		N/A		N/A		N/A		
	Power	Type		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			
Power Consumption		Max[W/h]	110		138		143		
		Typical[W/h]	74		103		108		
		Rating[W/h]	100		125		130		
		BTU(Max)	375.1		470.6		487.6		
		Sleep mode	0.5		0.5		0.5		
		Off mode	N/A		N/A		N/A		
Dimension(mm)		Set	9675 x 5577 x 48.3		10992 x 6315 x 46.3		12351 x 7079 x 46.3		
Package		1095 x 676 x 151		1247 x 772 x 152		1402 x 858 x 163			
Weight (kg)	Set	10		13.5		18.1			
	Package	13.3		18		23.6			
VESA Mount		200 X 200		200 X 200		200 X 200			
Protection Glass		N/A		N/A		N/A			
Stand Type		Foot Stand (Optional)		Foot Stand (Optional)		Foot Stand (Optional)			
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)			
Operation	Operating Temperature		0°C - 40°C		0°C - 40°C		0°C - 40°C		
	Humidity		10~80%		10~80%		10~80%		
Feature	Key		UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, S5SP 6.0		UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, S5SP 6.0		UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, S5SP 6.0		
	Special	H/W	Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2-4EA, HDCP1.4-7EA), IP5x Rating, Wi-Fi/BT		Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2-4EA, HDCP1.4-7EA), IP5x Rating, Wi-Fi/BT		Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2-4EA, HDCP1.4-7EA), IP5x Rating, Wi-Fi/BT		
		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)		
	Processor	Processor	Coretex A721.7GHz Quad-Core CPU		Coretex A721.7GHz Quad-Core CPU		Coretex A721.7GHz Quad-Core CPU		
		On-Chip Cache Memory	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		
		Clock Speed	1.7GHz		1.7GHz		1.7GHz		
		Main Memory Interface	2.5GB LPDDR41.5GHz 64bit		2.5GB LPDDR41.5GHz 64bit		2.5GB LPDDR41.5GHz 64bit		
	"Internal Player (Embedded H/W)"	Graphics	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.)		Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.)		Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.)		
		Storage (FDM)	8GB (3.88GB Occupied by O/S, 4.12GB Available)		8GB (3.88GB Occupied by O/S, 4.12GB Available)		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		
		IO Ports	USB 2.0		USB 2.0		USB 2.0		
	Operating System		Tizen 4.0 (VDLinux)		Tizen 4.0 (VDLinux)		Tizen 4.0 (VDLinux)		
	Certification	Safety		60950-1		60950-1		60950-1	
		EMC		Class B		Class B		Class B	
Environment		ENERGY STAR 70 (USA)		ENERGY STAR 70 (USA)		ENERGY STAR 70 (USA)			
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		
	Optional	Stand	STN-L4355F		STN-L4355F		No		
		Mount	WMN4070SE		WMN4070SE		WMN4277SE		
		Specialty	CML400XK		CML400XK		CLM450K		
	Media Player		N/A		N/A		N/A		