



Samsung SMART Signage QMR / QMT series

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

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

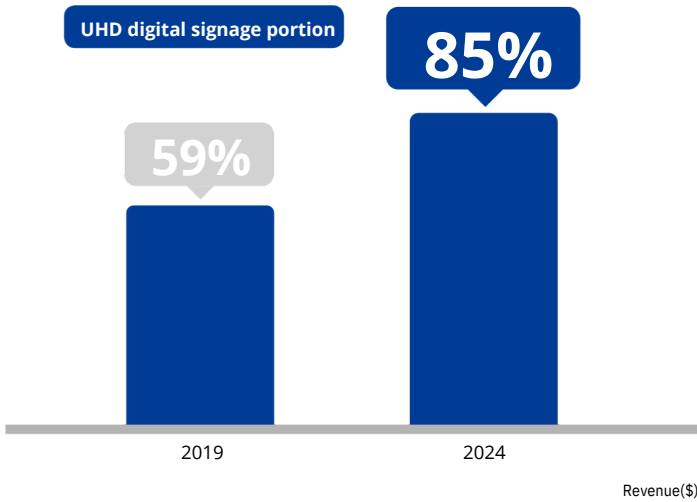
Highlights

- Engage customers with lifelike images through ultra high-definition resolution
- Deliver UHD-level picture quality even with lower resolution content through Crystal Processor 4K supporting advanced UHD upscaling technology
- Dynamic Crystal Display allows viewers to enjoy a wider spectrum of colors, up to one billion shades
- 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

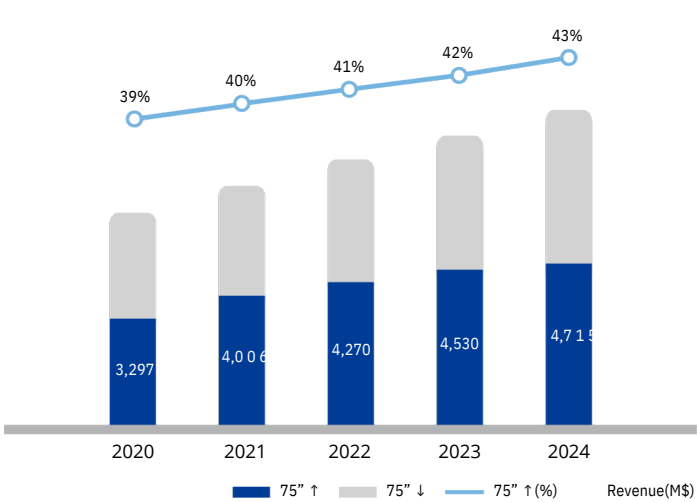
Industry trend

With visual display technology continually improving, viewers have developed an ever-growing expectation for better – and bigger – picture quality. Users, more than ever, want to captivate customers with truly lifelike images and gain a competitive edge over their industry peers with best-in-class displays. This is reflected in the fact that UHD resolution continues to grow in popularity, becoming an essential way for brands to impress customers amid a wider variety of stunning, aesthetical visuals and content. This trend is coupled with demand for larger screen sizes, particularly in the 75-inch and above category, enabling businesses to differentiate themselves and display content in a more impactful way than ever before.

Ultra-high definition is the new normal *



Demand for bigger screens is on the rise **



*** Source : Omdia, Public Displays Market Tracker Q1 2020, July 2020. Revenues in USD Millions. Does Not Include Consumer TVs Used as Public Displays. Not an Endorsement of Samsung Electronics Co. Ltd. Any Reliance on these results is at the third-party's own risk.

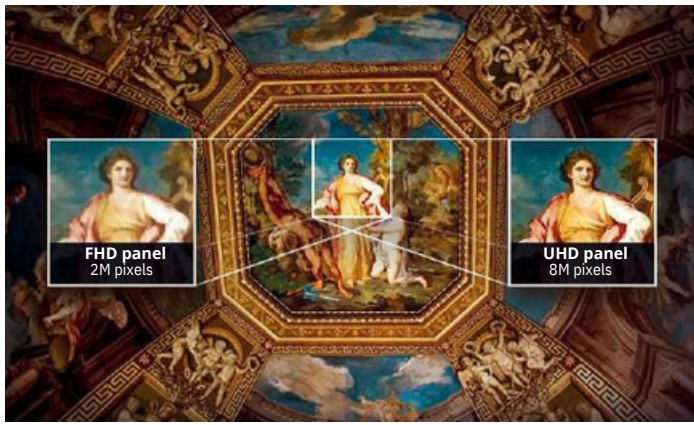
Why Samsung's QMR / QMT series?

Samsung's superior visual display technology has positioned them as the industry leader in the digital signage market for a decade* and Samsung brand having been No.1 in sales for 11 consecutive years in the display market**. As an expert in picture quality in the display industry, Samsung is able to deliver best-in-class picture quality through their QMR and QMT series. The signage provides rich and flawless colors, sleek and durable design, powerful performance through SSSP 6 and secured protection. Samsung's QMR and QMT series is also able to upscale the low 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.

* Results based on Omdia(former IHS) report "Public Displays Market Tracker", 2009 – 2018. Information is not an endorsement of Samsung. Any reliance on these results is at the third party's own risk.
 ** According to market research company "Omdia". Ranking in terms of shipments. Results are not an endorsement of Samsung. Any reliance on these results is at the third-party's own risk.

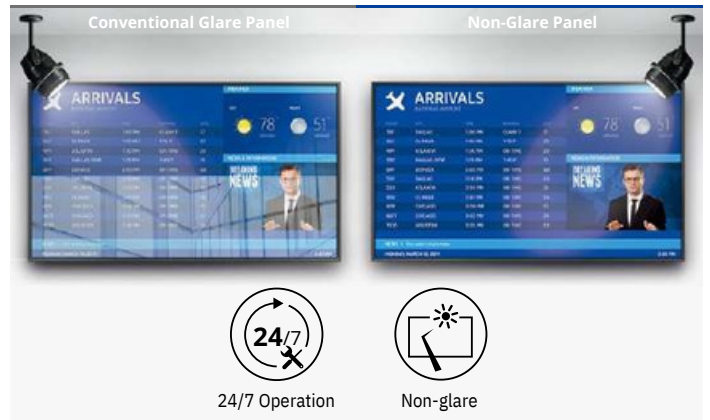


Key features



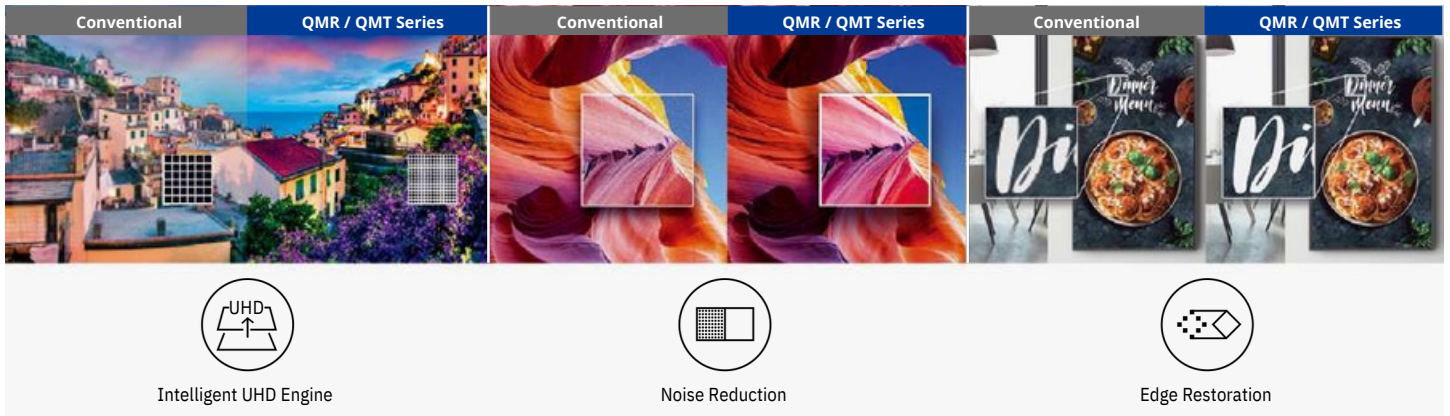
Incredible 4K picture quality

Samsung's new QMR and QMT 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 and QMT 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.



Crystal Processor 4K

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 Display

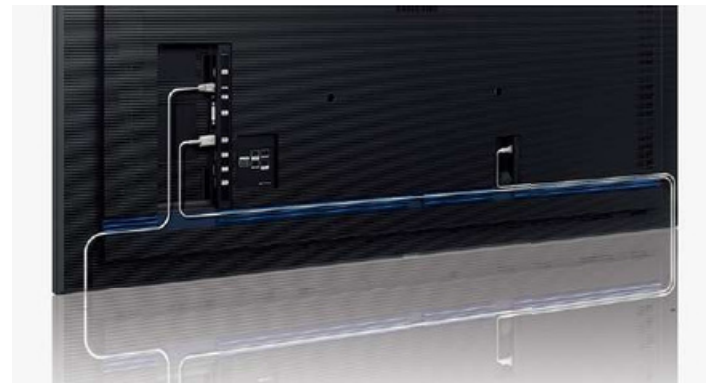
Dynamic Crystal Display is what brings the incredible, lifelike color to Samsung displays. Using 10-bit processing, the displays are able to showcase a wider spectrum of colors — up to a billion different shades — capturing subtle differences for flawless color expression, critical to businesses in ensuring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

* The scheduled availability of this feature varies by model.



Powerful, all-in-one solution

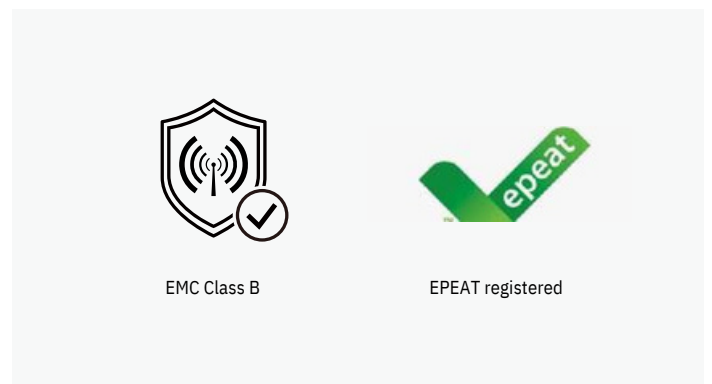
The Samsung SMART Signage Platform (SSSP) is an open-source, all-in-one solution embedded in Samsung SMART signage that simplifies installation and maintenance. With SSSP, there is no need for any external devices to communicate with the server or play digital media enjoying easy development, reinforced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



Wi-Fi and Bluetooth built-in

The QMR and QMT 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.

* Images 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.


* QM85R and QM98T have EMC class A certification and not registered by EPEAT.

Specifications

Model			QM85R	QM98T	
Panel	Diagonal Size		85	98	
	Type	Class Measured	84.5	97.5	
	Resolution		Edge LED BLU	Direct LED BLU	
	Pixel Pitch (mm)		UHD (3840 x 2160)	UHD (3840 x 2160)	
	Active Display Area		0.4875 x 0.4875	0.562 x 0.562 (mm)	
	Brightness(Typ.)		1872.0(H) x 1053.01(V)	2158.848(H) x 1214.352(V)	
	Contrast Ratio (Typ.)		500	500	
	Viewing Angle(H/V)		4000:1	1200:1	
	Response Time (G to G)		178/ 178	178/ 178	
	Display Colors		8ms(Typ.)	8ms(Typ.)	
	Color Gamut		16.7M(True Display)	16.7M(True Display)	
	Operation Hour		1.07B(Ditherd 10bit)	1.07B(Ditherd 10bit)	
	Haze		92% (DCI-P3, CIE 1976)	72%	
	Display	Dynamic C/R		24/7	24/7
H-Scanning Frequency			28%	25%	
V-Scanning Frequency			MEGA	MEGA	
Maximum Pixel Frequency			30 ~ 81KHZ	30 ~ 81KHZ	
Speaker Type			48 ~ 75HZ	48 ~ 75HZ	
			594MHz	594MHz	
			Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)	
			DVI-D, Display Port 1.2 (1)	DVI-D, Display Port 1.2 (1)	
Connectivity		INPUT	RGB	HDMI 2.0 (2)	HDMI 2.0 (2)
			VIDEO	HDCP 2.2	HDCP 2.2
	HDCP		Stereo mini Jack, DVI, HDMI/Audio(Common)	Stereo mini Jack, DVI, HDMI	
	AUDIO		USB 2.0 x 2	USB 2.0 x 2	
	USB		HDMI 2.0 (Loop-out)	HDMI 2.0 (Loop-out)	
	Power Out		N/A	N/A	
	OUTPUT	RGB	N/A	N/A	
		VIDEO	Stereo mini Jack	Stereo mini Jack	
		AUDIO	N/A	N/A	
		Power Out	N/A	N/A	
		USB	RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45	
		EXTERNAL CONTROL	IR	IR	
	EXTERNAL SENSOR	EXTERNAL SENSOR	N/A	N/A	
		Tuner	Internal	Internal	
Type		AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz		
Power Supply		308	616		
Power	Power Consumption	Max[W/h]	217	414	
		Typical[W/h]	280	560	
		Rating[W/h]	1050.3	2101.9	
		BTU(Max)	0.5	0.5	
		Sleep mode	N/A	N/A	
		Off mode	1897.8 x 1080.8 x 56.7	2195.8 x 1250.8 x 96.5	
		Set	2090 x 1247 x 260	2369 x 1405 x 350	
Mechanical Spec	Dimension(mm)	Package	48.4	83	
		Set	63.7	106	
		Package	600 x 400	800 x 400	
	Weight (kg)	Package	N/A	N/A	
	VESA Mount		N/A	N/A	
	Protection Glass		N/A	N/A	
	Stand Type		10.9mm(U/L/R), 12.9mm(B)	17.9	
Operation	Bezel Width (Top/Side/Bot) (mm)		0°C~ 40°C	0°C~ 40°C	
	Operating Temperature		10~80%	10~80%	
	Humidity		UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0	UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0	
	Key		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	
Feature	Special	H/W	LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	
		S/W	Cortex A72 1.7GHz Quad-Core CPU	Cortex A72 1.7GHz Quad-Core CPU	
	Internal Player (Embedded H/W)	Processor	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB	
		On-Chip Cache Memory	1.7GHz	1.7GHz	
		Clock Speed	2.5GB LPDDR4 1.5GHz 64bit	2.5GB LPDDR4 1.5GHz 64bit	
		Main Memory Interface	Graphic resolution : 1920x1080	Graphic resolution : 1920x1080	
		Graphics	Output resolution : 3840x2160 (Scale up from graphic processing result.)	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)	
		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	
		IO Ports	USB 2.0	USB 2.0	
		Operating System	Tizen 4.0 (VDLinux)	Tizen 4.0 (VDLinux)	
System		60950-1	60950-1		
Certification	Safety	Class A	Class A		
	EMC	N/A	N/A		
	Environment	802.1x(WPA2 Enterprise) (*20.1~) : EAP-TLS, EAP-TTLS, EAP-PEAP Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	802.1x(WPA2 Enterprise) : EAP-TLS, EAP-TTLS, EAP-PEAP Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries		
	Security	N/A	N/A		
Accessories	Included	WMN8200SF / WMN8200SG	WMN8200SG		
	Optional	Stand	N/A	N/A	
		Mount	N/A	N/A	
		Specialty	N/A	N/A	
Media Player					

Note



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SMART Signage

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Samsung Electronics Co., Ltd.

416, Maetan 3-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-772, Korea
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