



## Samsung SMART Signage

### QBN Series

Bring Creative Content Ideas to Life through Intelligent Picture Quality

Samsung's QBN Series displays deliver content with added precision and visual impact while also improving operational efficiency. Through advanced UHD picture quality, the QBN Series displays foster an inviting and memorable viewing environment in any indoor setting. Additionally, Backed by the powerful TIZEN operating system, the QBN Series displays feature a host of business-ready functionalities while also protecting business and customer data through enhanced security measures.

### Highlights

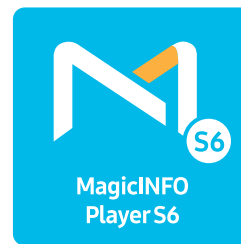
- Revitalize customer engagement in retail and transportation settings
- Elevate content quality through a unique combination of picture-enhancing features
- Facilitate secure, PC-free meetings through rigid three-layer protection
- Manage performance and identify potential disruptions with detailed remote monitoring
- Maintain content integrity through dust-resistant exterior glass

## Industry Trend

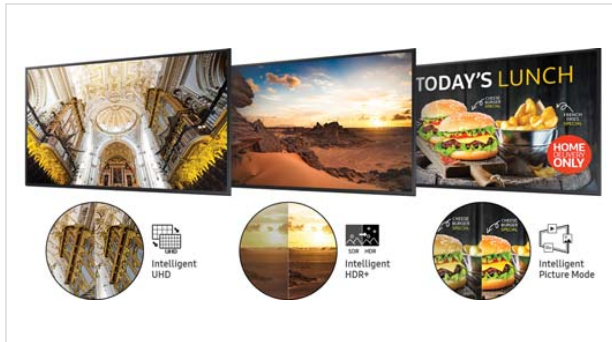
As businesses seek to extend viewer engagement and reinforce their own branding, many see advanced digital signage as a versatile and effective solution. Businesses want to showcase content as crisply and clearly as possible, with new innovations such as UHD picture quality offering customers something new and exciting. Beyond graphic precision and accuracy, businesses also seek new technologies that make their lives easier. This flexibility ranges from features that expand operational capabilities and reduce maintenance to the maximization of data security and protection.

## Why Samsung QBN Series?

As more businesses turn to UHD displays for differentiation, Samsung's QBN Series offers the ideal customer engagement forum. The QBN Series is programmed with Samsung's Intelligent Picture Quality abilities, including its three core technologies: Intelligent UHD, Intelligent Picture Mode and Intelligent HDR+. The Intelligent PQ capabilities create the ideal platform for businesses to display elite content. Recent advancements have made our signage offerings even stronger and empower businesses to develop and deploy content with the confidence that it will perform continuously.

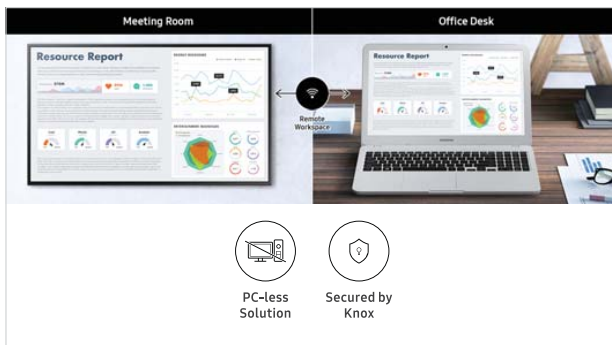


## Key Features



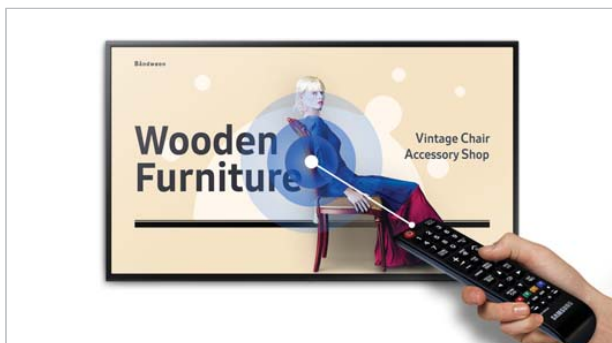
### Share Intelligent, High-Quality Content

The QBN Series displays leverage Samsung's Intelligent Picture Quality technology to elevate content delivery in any setting. This refined presentation transforms content from any source to UHD-level quality, and optimizes on-screen text and imagery with crisp edges and fine detail.



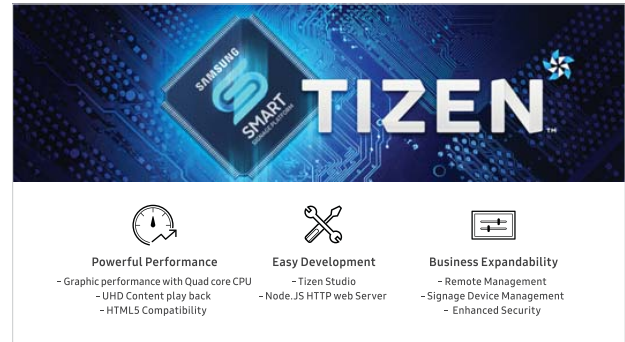
### Empower Secure and Remote Collaboration

Samsung's KNOX platform provides rigid three-layer protection while also securing and controlling USB and user network exchange through dedicated signage device management. With added security, businesses can facilitate remote, PC-free meetings without risk or complexity.



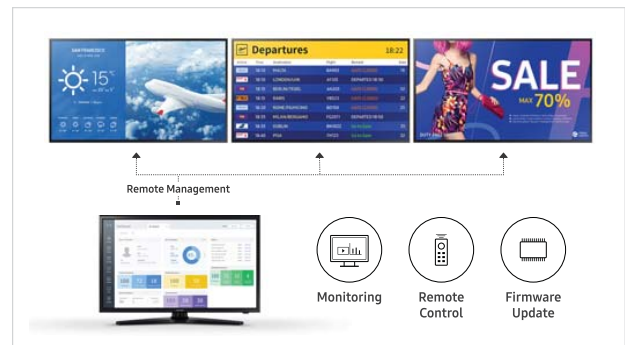
### Enjoy Convenient Display Management

The QBN Series' integrated centralized infrared receiver (IR) ensures easier and more flexible user control. Each display receives signals on individual panels via Central IR, and users can navigate the IR functionality from various locations to further augment uninterrupted performance.



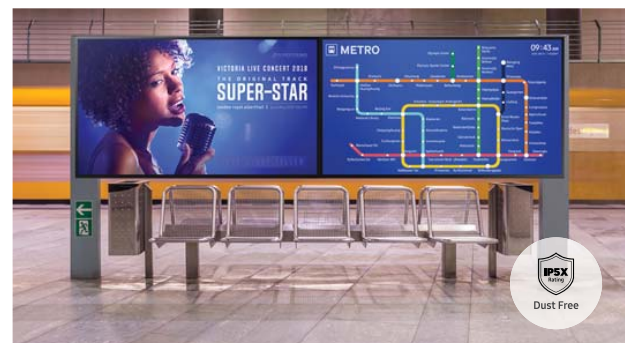
### Streamline Operational Efficiency

The embedded MagicINFO Player S6, backed by the powerful TIZEN operating system, boosts the displays overall performance, allows for painless content management and ensures seamless content transition and playback.



### Maintain Continuous Display Performance

Beyond security and content management, QBN Series users can trust the displays' remote management for fast, efficient issue mitigation. Users can monitor and diagnose irregularities – both on their own and with help from Samsung's Network Operations Center – from any location.



### Shield Content from Outside Interference

The QBN Series' durable, IP5x-validated design ensures continuous content delivery regardless of environmental conditions. As a result, transportation hubs and other arenas susceptible to dust, dirt and lighting exposure can activate and run the displays without an external enclosure.

## Specification

MODEL			QB43N	QB49N	QB55N	QB65N	QB75N	
Panel	Diagonal Size	Class	43	49	55	65	75	
		Measured	42.5	48.5	54.6	64.5	74.5	
	Type		New Edge	New Edge	New Edge	New Edge	New Edge	
	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 803.52 (V)	1650.24 (H) x 928.26 (V)	
	Brightness (Typ.)		350	350	350	350	350	
	Contrast Ratio (Typ.)		5000 : 1	4000 : 1	4000 : 1	6000 : 1	6000 : 1	
	Viewing Angle (H/V)		178 / 178	178 / 178	178 / 178	178 / 178	178 / 178	
	Response Time (G to G)		8ms	8ms	8ms	8ms	8ms	
	Display Colors		16.7M	16.7M	16.7M	16.7M	16.7M	
	Color Gamut		72%	72%	72%	72%	72%	
	Operation Hour		16 / 7	16 / 7	16 / 7	16 / 7	16 / 7	
	Haze		0%	2%	2%	2%	2%	
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	
Sound	Speaker Type				Built in Speaker (10W + 10W)			
Connectivity	INPUT	RGB	DVI-D	DVI-D	DVI-D	DVI-D	DVI-D	
		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/Audio(Common)					
	OUTPUT	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	
		RGB	N/A	N/A	N/A	N/A	N/A	
		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	
	EXTERNAL CONTROL	Power Out	N/A	N/A	N/A	N/A	N/A	
		USB	N/A	N/A	N/A	N/A	N/A	
	EXTERNAL SENSOR			RS232C (in/out) thru stereo jack, RJ45				
	Tuner			IR	IR	IR	IR	IR
	Type			N/A	N/A	N/A	N/A	N/A
	Power Supply			Internal	Internal	Internal	Internal	Internal
Power	Power Consumption	Max [W/h]	121	132	143	176	220	
		Typical [W/h]	76	91	96	125	159	
		Rating [W/h]	110	120	130	160	200	
		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	970.2 x 563.2 x 58.5	1102.8 x 637.8 x 59.4	1238.6 x 714.2 x 59.0	1457.5 x 837.3 x 59.4	1684.6 x 966.7 x 60.4	
		Package	943.2 x 531.4 x 1081.5	1075.8 x 606.0 x 1233.7	1211.6 x 682.4 x 1389.4	1430.5 x 805.5 x 1640.6	1652.2 x 930.3 x 1895.0	
	Weight (kg)	Set	10	13.5	17.8	25.2	37.8	
		Package	13.3	17.7	22.4	33.1	50.6	
	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	
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)	Foot Stand (Optional)	No	No	
	Bezel Width (Top/Side/Bot) (mm)		13.5 (Top,Side), 17.7 (Bottom)	13.5 (Top,Side), 17.7 (Bottom)	13.5 (Top,Side), 17.7 (Bottom)	13.5 (Top,Side), 17.7 (Bottom)	16.2(top,side), 19.3(bottom)	
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, S5SP 6.0					
	Special	H/W	Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x, Wi-Fi					
		S/W	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)					
	Internal Player (Embedded H/W)	Processor	Coretex A72 1.7GHz Quad-Core CPU					
		On-Chip Cache Memory	L1 Instruction Cache : 48KB / L1 Data Cache : 32KB / L2 Cache : 2MB					
		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.)					
		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					
		IO Ports	USB 2.0					
	Certification	Safety	Tizen 4.0 (VDLinux)					
		EMC	60950-1					
		Environment	Class A					
Accessories	Included	ENERGY STAR 7.0 (USA)						
	Optional	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries						
		Stand Mount	New Stand Accessory					
		Specialty Media Player	WMN4070SE CML400XX N/A					

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### SMART Signage

For more information about Samsung SMART Signage QBN Series Displays, visit [www.samsung.com/business](http://www.samsung.com/business) or [www.samsung.com/displaysolutions](http://www.samsung.com/displaysolutions)

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