



# Samsung SMART Signage

## QBR / QBT series

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

Through intelligent UHD upscaling technology, Samsung's QBR and QBT series performs edge restoration and noise reduction to deliver UHD picture quality even with lower resolution content. Backed by Tizen 4.0, the QBR and QBT 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 Crystal Processor 4K supporting innovative 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

# Specifications

Model			QB43R	QB50R	QB55R	QB65R	QB75R	
Panel	Diagonal Size	Class	43	50	55	65	75	
		Measured	42.5	50	54.6	64.5	74.5	
	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	0.285 x 0.285	0.315 x 0.315	0.372 x 0.372	0.42975 x 0.42975		
	Active Display Area	941.184 (H) x 529.416 (V)	1095.84(H) x 616.41(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.)	4000:1	4000:1	4000:1	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(True Display) 1.07B(Dithered 10bit)	16.7M(True Display) 1.07B(Dithered 10bit)	16.7M(True Display) 1.07B(Dithered 10bit)	16.7M(True Display) 1.07B(Dithered 10bit)	16.7M(True Display) 1.07B(Dithered 10bit)		
	Color Gamut	92% (DCI-P3, CIE 1976)	92% (DCI-P3, CIE 1976)	92% (DCI-P3, CIE 1976)	92% (DCI-P3, CIE 1976)	92% (DCI-P3, CIE 1976)		
	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	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)	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)		
Connectivity	INPUT	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)		
		HDCP	HDCP 2.2	HDCP 2.2	HDCP 2.2	HDCP 2.2		
		AUDIO	Stereo Mini Jack, DVI/HDMI/ Audio(Common)	Stereo Mini Jack, DVI/HDMI/ Audio(Common)	Stereo Mini Jack, DVI/HDMI/ Audio(Common)	Stereo Mini Jack, DVI/HDMI/ Audio(Common)		
		USB	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2		
	OUTPUT	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	
		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, 50/60 Hz	AC100 - 240 V, 50/60 Hz	AC100 - 240 V, 50/60 Hz	AC100 - 240 V, 50/60 Hz	AC100 - 240 V, 50/60 Hz		
Power Consumption		Max[W/h]	110	143	143	181.5	231	
		Typical[W/h]	67	86	108	128	150	
		Rating[W/h]	100	130	130	165	210	
		BTU(Max)	375.1	487.6	487.6	618.9	787.7	
		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	1121.4 x 643.9 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	1269 x 784 x 152	1402 x 858 x 163	1611 x 973 x 185	1871 x 1127 x 223
	Weight (kg)	Set	10	13.4	18.1	24.9	38.3	
		Package	13.3	17.6	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		
	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	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	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	
		H/W	Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), 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)	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	Coretex A72 1.7GHz Quad-Core CPU	Cortex A72 1.7GHz Quad-Core CPU	Coretex A72 1.7GHz Quad-Core CPU	Coretex A72 1.7GHz Quad-Core CPU	Coretex A72 1.7GHz 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	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB		
	Clock Speed	1.7GHz	1.7GHz	1.7GHz	1.7GHz	1.7GHz		
	Main Memory Interface	2.5GB LPDDR4 1.5GHz 64bit	2.5GB LPDDR4 1.5GHz 64bit	2.5GB LPDDR4 1.5GHz 64bit	2.5GB LPDDR4 1.5GHz 64bit	2.5GB LPDDR4 1.5GHz 64bit		
		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.)	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)	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	*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	USB 2.0	USB 2.0		
	Operating System	Tizen 4.0 (VDLinux)	Tizen 4.0 (VDLinux)	Tizen 4.0 (VDLinux)	Tizen 4.0 (VDLinux)	Tizen 4.0 (VDLinux)		
	Certification	Safety	60950-1	60950-1	60950-1	60950-1	60950-1	
		EMC	Class B	Class B	Class B	Class B	Class B	
Environment		ENERGY STAR 8.0, Epeat	ENERGY STAR 8.0, Epeat	ENERGY STAR 8.0, Epeat	ENERGY STAR 8.0, Epeat	ENERGY STAR 8.0, Epeat		
Security	802.1x(WPA2 Enterprise) (201-) : EAP-TLS, EAP-TTLS, EAP-PEAP	802.1x(WPA2 Enterprise) (201-) : EAP-TLS, EAP-TTLS, EAP-PEAP	802.1x(WPA2 Enterprise) (201-) : EAP-TLS, EAP-TTLS, EAP-PEAP	802.1x(WPA2 Enterprise) (201-) : EAP-TLS, EAP-TTLS, EAP-PEAP	802.1x(WPA2 Enterprise) (201-) : EAP-TLS, EAP-TTLS, EAP-PEAP			
	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			
Accessories	Included	STN-L4355F	STN-L4355F	STN-L4355F	No	No		
	Optional	Stand	WMN4070SE (Land Only)	WMN4070SE (Land Only)	WMN4070SE (Land Only)	WMN4277SE (Land Only)	WMN4277SE (Land Only)	
		Mount	WMN4070SE (Land Only)	WMN4070SE (Land Only)	WMN4070SE (Land Only)	WMN4277SE (Land Only)	WMN4277SE (Land Only)	
		Specialty	CML400XK	CML400XK	CML400XK	CML450K	CML450K	
Media Player	N/A	N/A	N/A	N/A	N/A			

# Specifications

Model			QB85R	QB98T
Panel	Diagonal Size	Class	85	98
		Measured	84.5	97.5
	Type	Edge LED BLU	Direct LED BLU	
	Resolution	UHD (3840 x 2160)	UHD (3840 x 2160)	
	Pixel Pitch (mm)	0.4875 x 0.4875	0.562 x 0.562 (mm)	
	Active Display Area	1872.0(H) x 1053.01(V)	2158.848(H) x 1214.352(V)	
	Brightness(Typ.)	350	350	
	Contrast Ratio (Typ.)	4000:1	1200:1	
	Viewing Angle(H/V)	178/178	178/178	
	Response Time (G to G)	8ms (Typ.)	8ms (Typ.)	
	Display Colors	16.7M (True Display) 1.07B (Dithered 10bit)	16.7M (True Display) 1.07B (Dithered 10bit)	
	Color Gamut	92% (DCI-P3, CIE 1976)	72%	
	Operation Hour	16/7	24/7	
	Display	Haze	2%	25%
Dynamic C/R		MEGA	MEGA	
H-Scanning Frequency		30 ~ 81kHz	30 ~ 81kHz	
V-Scanning Frequency		48 ~ 75Hz	48 ~ 75Hz	
Maximum Pixel Frequency		594MHz	594MHz	
Sound	Speaker Type	Built in Speaker (10W + 10W)	Built in Speaker (10W + 10W)	
Connectivity	INPUT	RGB	DVI-D	DVI-D, Display Port 1.2 (1)
		VIDEO	HDMI 2.0 (2)	HDMI 2.0 (2)
		HDCP	HDCP 2.2	HDCP 2.2
		AUDIO	Stereo Mini Jack, DVI/HDMI/Audio(Common)	Stereo mini Jack, DVI, HDMI
		USB	USB 2.0 x 2	USB 2.0 x 2
	OUTPUT	RGB	N/A	HDMI 2.0 (Loop-out)
		VIDEO	N/A	N/A
		AUDIO	Stereo Mini Jack	Stereo mini Jack
		Power Out	N/A	N/A
		USB	N/A	N/A
	EXTERNAL CONTROL		RS232C(in/out) thru stereo jack, RJ45	RS232C(in/out) thru stereo jack, RJ45
	EXTERNAL SENSOR		IR	IR
	Tuner		N/A	N/A
Power	Type	Internal	Internal	
	Power Supply	AC100 - 240 V, 50/60 Hz	AC100 - 240 V, 50/60 Hz	
	Power Consumption	Max[W/h]	198	462
		Typical[W/h]	143	360
		Rating[W/h]	180	420
		BTU(Max)	675.2	1576.4
		Sleep mode	0.5	0.5
Off mode	N/A	N/A		
Mechanical Spec	Dimension(mm)	Set	1897.8 x 1080.8 x 56.7	2195.8 x 1250.8 x 96.5
		Package	2090 x 1247 x 260	2369 x 1405 x 350
	Weight (kg)	Set	48.4	83
		Package	63.7	106
	VESA Mount		600 x 400	800 x 400
	Protection Glass		N/A	N/A
	Stand Type		N/A	N/A
Bezel Width (Top/Side/Bot) (mm)		10.9mm(U/L/R), 12.9mm(B)	17.9	
Operation	Operating Temperature	0°C~ 40°C	0°C~ 40°C	
	Humidity	10~80%	10~80%	
Feature	Key	UHD Signage Display Slim & Light Signage with Built-in MagicInfo 56, S5SP 6.0	UHD Signage Display Slim & Light Signage with Built-in MagicInfo 56, S5SP 6.0	
	Special	H/W	Temperature Sensor, Pivot Display, Clock Battery (168hrs Clock Keeping), Built in Speaker (10W 2ch), 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), 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)
	Internal Player (Embedded H/W)	Processor	Cortex A72 1.7GHz Quad-Core CPU	Cortex A72 1.7GHz 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
		Clock Speed	1.7GHz	1.7GHz
		Main Memory Interface	2.5GB LPDDR4 1.5GHz 64bit	2.5GB LPDDR4 1.5GHz 64bit
		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.)
		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)		
Certification	Safety	60950-1	60950-1	
	EMC	Class A	Class A	
	Environment	N/A	N/A	
	Security	802.1x(WPA2 Enterprise) (201-) : EAP-TLS, EAP-TTLS, EAP-PEAP	802.1x(WPA2 Enterprise) : EAP-TLS, EAP-TTLS, EAP-PEAP	
Accessories	Included	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	
	Optional	Stand	N/A	N/A
		Mount	WMN8200SF / WMN8200SG	WMN8200SG
		Specialty	N/A	N/A
Media Player	N/A	N/A		

## About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at [news.samsung.com](http://news.samsung.com).

## SMART Signage

For more information about Samsung SMART Signage QBR / QBT 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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