

Samsung SMART Signage

QMN series

Share Clear Messaging that Resonates through Intelligent Picture Quality

Samsung's QMN Series displays deliver content with added precision and visual impact while also improving operational efficiency. Through advanced UHD picture quality, the QMN Series displays foster an inviting and memorable viewing environment in any indoor setting. Additionally, Backed by the powerful TIZEN operating system the QMN 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- and glare-resistant exterior glass

SAMSUNG

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 QMN series?

Whether for a retailer promoting new sales or a transportation hub keeping travelers on schedule, clear information delivery drives success. Samsung's QMN Series help businesses achieve these goals by leveraging 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. 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.



Intelligent Picture Quality



Key features



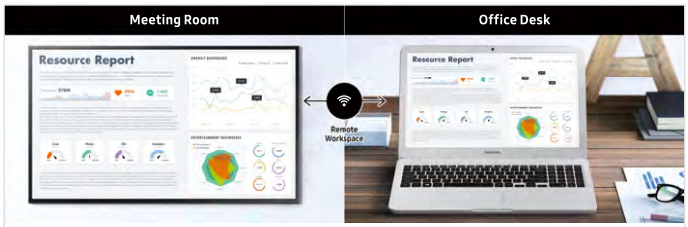
Powerful Performance
- Graphic performance with Quad core CPU
- UHD Content play back
- HTML5 Compatibility

Easy Development
- Tizen Studio
- Node.JS HTTP web Server

Business Expandability
- Remote Management
- Signage Device Management
- Enhanced Security

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.

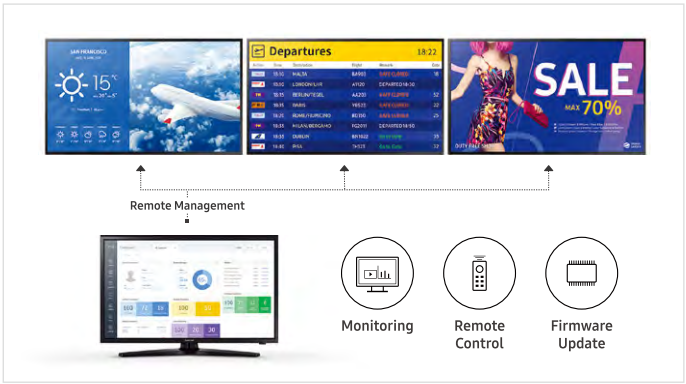


PC-less Solution

Secured by Knox

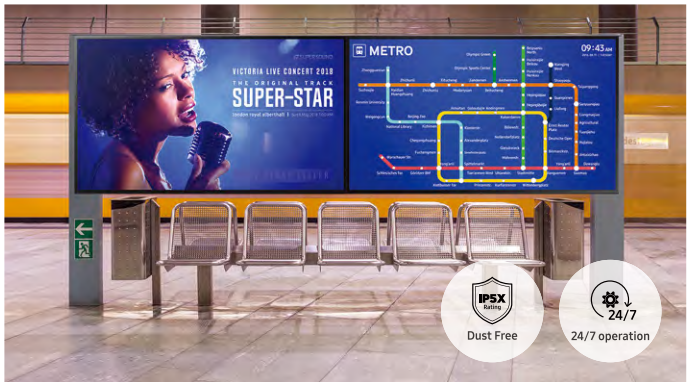
Empower Secure and Remote Collaboration

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.



Maintain Continuous Display Performance

Beyond security and content management, QMN 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 24/7 Network Operations Center – from any location.



Shield Content from Outside Interference

The QMN Series' durable, IP5x-validated design ensures continuous, glare-free 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.

* QM85N and QM98N do not support IP5x validation.



Enjoy Convenient Display Management

The QMN 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.

* QM85N and QM98N do not include the integrated central infrared receiver capabilities.



Accelerate Multi-Screen Content Delivery

For added flexibility, the QMN Series offers users HDMI 2.0 and DP1.2 port connectivity. This versatility ensures a consistent 60 Hz. refresh rate and optimal clarity regardless of the source. Additionally, users can configure UHD daisy chains up to 2x2 in size through the HDMI 2.0 port.

Specifications

Model			QM43N	QM49N	QM55N	QM65N
Panel	Diagonal Size	Class	43	49	55	65
		Measured	42.5	48.5	54.6	64.5
	Type		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)
	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	5000:1
	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		72%	72%	72%	72%
	Operation Hour		24/7	24/7	24/7	24/7
	Haze		44%	25%	25%	44%
Display	Dynamic C/R		MEGA	MEGA	MEGA	MEGA
	H-Scanning Frequency		30 ~ 81kHZ	30 ~ 81kHZ	30 ~ 81kHZ	30 ~ 81kHZ
	V-Scanning Frequency		48 ~ 75HZ	48 ~ 75HZ	48 ~ 75HZ	48 ~ 75HZ
	Maximum Pixel Frequency		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)
Connectivity	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)
		VIDEO	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
		AUDIO	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
	OUTPUT	RGB	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
		AUDIO	Stereo mini Jack	Stereo mini Jack	Stereo mini Jack	Stereo mini Jack
		Power Out	N/A	N/A	N/A	N/A
		USB	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
	EXTERNAL SENSOR		IR	IR	IR	IR
	Tuner		N/A	N/A	N/A	N/A
Power	Type		Internal	Internal	Internal	Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	121	132	143	176
		Typical[W/h]	76	91	96	125
		Rating[W/h]	110	120	130	160
		Sleep mode	0.5	0.5	0.5	0.5
		Off mode	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
		Package	1097 x 677 x 151	1250 x 778 x 153	1346 x 852 x 158	1601 x 970 x 178
	Weight (kg)	Set	9.9	13.3	17.4	25.3
		Package	13.7	17.9	23	33.4
	VESA Mount		200 X 200	200 X 200	200 X 200	400 X 400
	Protection Glass		N/A	N/A	N/A	N/A
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)	Foot Stand (Optional)	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)
Operation	Operating Temperature		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%
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
	Special	H/W	Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HD-CP1.4:7EA), IP5x, Wi-Fi/BT	Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HD-CP1.4:7EA), IP5x, Wi-Fi/BT	Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HD-CP1.4:7EA), IP5x, Wi-Fi/BT	Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HD-CP1.4:7EA), IP5x, 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)
	"Internal Player (Embedded H/W)"	Processor	Coretex 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
		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
		Graphics	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic pro-cessing result.)	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic pro-cessing result.)	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic pro-cessing result.)	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic pro-cessing 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)
		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
		IO Ports	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)
Certification	Safety		60950-1	60950-1	60950-1	60950-1
	EMC		Class A	Class A	Class A	Class A
	Environment		ENERGY STAR 7.0 (USA)	ENERGY STAR 7.0 (USA)	ENERGY STAR 7.0 (USA)	ENERGY STAR 7.0 (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	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries
	Optional	Stand	STN-L4300H	STN-L4955H	STN-L4955H	No
		Mount	WMN4070SE	WMN4070SE	WMN4070SE	WMN6575SE
		Specialty	CML400XK	CML400XK	CML400XK	No
		Media Player	N/A	N/A	N/A	N/A

Specifications

Model			QM75N	QM85N	QM98N
Panel	Diagonal Size	Class	75	85	98
		Measured	74.5	84.5" / 214cm	97.5"/247.7cm
	Type		New Edge	120Hz Slim Direct LED BLU	60Hz E-LED BLU
	Resolution		UHD (3840 x 2160)	3840x2160(16:9)	3840x2160(16:9)
	Pixel Pitch (mm)		0.42975 x 0.42975	0.4875 x 0.4875 (mm)	0.187 x 0.562 (mm)
	Active Display Area		1650.24 (H) x 928.26 (V)	1872.0(H) x 1053.0(V)	2158.848(H) x 1214.352(V)
	Brightness(Typ.)		500	500nit	500nit
	Contrast Ratio (Typ.)		6000:1	3000:1	4000:1
	Viewing Angle(H/V)		178/178	178/178	178/178
	Response Time (G to G)		8ms(Typ.)	8ms(Typ.)	6ms (Typ)
	Display Colors		16.7M	16.7M(True Display) 1.07B(Ditherd 10bit)	16.7M(True Display) 1.07B(Ditherd 10bit)
	Color Gamut		72%	72%	72%
	Operation Hour		24/7	24/7	24/7
	Haze		44%	44%	25%
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(15W + 15W)	Built in Speaker(10W + 10W)
Connectivity	INPUT	RGB	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)
		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		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	220	495	528
		Typical[W/h]	159	362	372
		Rating[W/h]	200	450	480
		Sleep mode	0.5	0.5	0.5
		Off mode	N/A	N/A	N/A
Mechanical Spec	Dimension(mm)	Set	1684.6 x 966.7 x 60.4	1903.4 x 1090.5 x 105.1	2194.2 x 1249.8 x 71.6 (w/o handle) 2194.2 x 1249.8 x 75.3 (w/ handle)
		Package	1871 x 1131 x 234	2050 x 1265 x 472	2500 x 1618 x 815
	Weight (kg)	Set	38	50.7	77.1
		Package	50.5	66.9	149.4
	VESA Mount		400 X 400	600x400	900x600
	Protection Glass		N/A	N/A	N/A
	Stand Type		No	Foot Stand(Optional)	Foot Stand (Optional)
	Bezel Width (Top/Side/Bot) (mm)		16.2(top,side), 19.3(bottom)	13.2/13.2/19.3	15.2/15.2/15.2
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, 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
	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, 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	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)	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	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
		Clock Speed	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
		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 A	Class A	Class A
	Environment		ENERGY STAR 7.0 (USA)	N/A	N/A
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	No	-	-
		Mount	WMN6575SE	WMN8200SD	WMN9500SD
		Specialty	No	-	-
		Media Player	N/A	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.

SMART Signage

For more information about Samsung SMART Signage QMN Series Displays, visit
www.samsung.com/business or www.samsung.com/displaysolutions

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