



Businesses no longer just need large size displays, they often also need smaller displays for a variety of environments and uses. Samsung's QB13R / QB13R-T small display enables personalized and more impactful communication through its compact and versatile design. An all-in-one solution designed for professional use, the display improves the operational efficiency of content, while also ensuring reliable performance for any business use. The QB13R-T specifically, is a touch-enabled small display which provides a unique store experience and improves customer engagement.

# **Highlights**

- 13" FHD, non-glare display delivering clear content.
- Compact and slim design enabling efficient use of space.
- Embedded MagicINFO S player to support seamless content playback.
- Rigid 3-layered Knox security system preventing any unauthorized access.
- Center IR and built-in Wi-Fi allowing convenient remote device control and management.
- EMC Class B and IP5x rating to ensure safe and reliable operation.

SAMSUNG



## **Industry trend**

As creating differentiated brick-and-mortar locations continues to increase in popularity, providing a unique in-store experience is critically important for elevating a brand and driving sales. Therefore, businesses are finding new and effective ways to engage customers by making the most of every customer touch point. That means small sized displays are being adapted as common tools within various environments. More personalized, intimate content can reach the right audience at optimal points in time, increasing engagement and sales opportunities. Efficient content management and reliable performance ensure businesses can operate the displays without any hassle.

# Introducing Samsung Small Displays

Samsung is introducing the two latest versatile, small sized displays, the QB13R and touch-enabled QB13R-T. Designed for professional use, Samsung's QB13R Series delivers clear content using the embedded MagicINFO S media player, supported by reliable 16/7 operation and industry standard certification to ensure safe operation, reliable performance and eliminate any hassle.









# **QB13R: Small Display**

The QB13R, FHD resolution display delivers clear and vibrant content, all in a slim and compact design. It can easily be applied to any business environment, such as a tool to display schedules, information and promotions in corporate lobbies, elevators and in front of meeting rooms and classrooms. To engage customers more directly, the QB13R can also be used as a store shelf display to promote a specific or targeted item, in addition to showing promotions at the point of sale (POS) or counter.



# QB13R-T : Touch Display

With integrated capacitive touch functionality, the QB13R-T provides a user-friendly experience. Its 10-point multi-touch and fast response time powers an intuitive interface that allows for customer-driven search and action. QB13R-T is optimized for any interaction opportunities such as health-care, check-in at the gym, an automotive showroom, as well as any retail or restaurant environment where businesses would want to offer a personalized service while also acquiring customer data.





# **Key features**



### Crisp and visible content

The display supports 1920x1080 FHD resolution, displaying crisp and easy-to-read content. This is enhanced by a non-glare panel which always delivers clear content in any ambient light. These innovative features are supported by reliable 16/7 operation, suitable for professional use.



### Powerful content playback

With an embedded MagicINFO S player, backed by TIZEN, the QB13R allows efficient and seamless playback without any external media player. SSSP also allows easy content development through reinforced compatibility with multiple web formats.



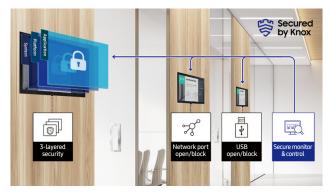
### Convenient, clean display control

With center IR, each display receives IR signals direct to the panel, allowing easy and convenient remote control even with a tailored installation. When mounted, display doesn't require an IR receiver cabling extension. Built-in Wi-Fi allows wireless remote management for both content and display.



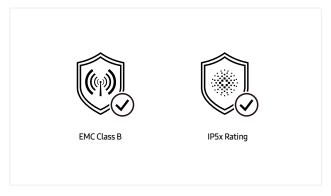
## Slim, smart design

The compact and slim design of the QB13R allows for efficient space utilization, even in compact locations. A sleek back design makes the display optimal for both wall mounting or simply standing, while the connectivity, content play and device controls are easy to operate.



### Comprehensive security setup

The powerful Knox security system provides rigid, three-layer security, offering airtight protection at the application, platform and system level, while restricting access to content and hardware. In addition, remote control of the network and USB ports prevents any unauthorized access.



## Safe operation, reliable performance

The QB13R is electromagnetic compatibility (EMC) class B compliant, meeting strict safety and reliability standards for operation. Additionally, IP5x rating ensures durable performance even in dusty environments.



# **Specifications**

	Mode		QB13R	QB13R-T
	Diagonal Size	Class	13"	13"
	Diagorial Size	Measured	13.27"	13.27"
	Туре		Edge LED	Edge LED
Panel	Resolution		FHD (1920 x1080)	FHD (1920 x1080)
	Pixel Pitch (mm)		0.153 x 0.153	0.153 x 0.153
	Active Display Area		293.76 (H) x165.24 (V)	293.76 (H) x165.24 (V)
			300nit	
	Brightness(Typ.)			250nit
	Contrast Ratio (Typ.)		800:1	600:1
	Viewing Angle(H/V)		178/178	178/178
	Response Time (G to G)		8ms(Typ.)	8ms(Typ.)
	Display Colors		16.7 M (real 6bit, dither 8bit)	16.7 M (real 6bit, dither 8bit)
	Color Gamut Operation Hour		45%	45%
			16/7	16/7
	Haze		10%	10%
	Dynamic C/R		MEGA	MEGA
	H-Scanning Frequency		30 ~ 81kHZ	30 ~ 81kHZ
Display	V-Scanning Frequency		48~75HZ	48~75HZ
Sound				
	Maximum Pixel Frequency		594MHz	594MHz
Sound	SpeakerType	ncn	Built in Speaker(5W)	Built in Speaker(5W)
		RGB	•	•
		VIDEO	HDMI1.4 (1)	HDMI 1.4 (1)
	INPUT	HDCP	HDCP2.2	HDCP2.2
		AUDIO	N/A	N/A
		USB	USB 2.0 x1	USB 2.0 x1
Connectivity	OUTPUT	RGB	N/A	N/A
		VIDEO	N/A	N/A
connectivity		AUDIO	N/A Stereo Mini Jack	N/A Stereo Mini Jack
		Power Out		
			N/A	Power Out - N/A / Touch Out - x1
		USB	N/A	N/A
	EXTERNAL CONTROL		RS232C(in) thru stereo jack, RJ45	RS232C(in) thru stereo jack, RJ45
	EXTERNAL SENSOR		N/A	N/A
	Tuner		N/A	N/A
	Туре		Adapter	Adapter
	PowerSupply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC100 - 240 V~ (+/-10 %), 50/60 Hz
	Power Consumption	Max[W/h]	27.5	27.5
		Typical[W/h]	13	14
Power		Rating[W/h]	25	25
		3		
		BTU(Max)	93.8	93.8
		Sleep mode	0.5	0.5
		Off mode	N/A	N/A
	Dimension(mm)	Set	322.0x193.5x28.2	322.0x193.5x29.8
Mechanical	Diffierision(ffiff)	Package	376x132x248	376x132x248
	W : 1.71 \	Set	0.9	1.1
	Weight (kg)	Package	1.7	2.0
Spec	VESA Mount		100 X100	100 X100
	Protection Glass		N/A	N/A
	Stand Type			
			BarType Simple Stand (Inbox)	Bar Type Simple Stand (Inbox)
	Bezel Width (Top/Side/Bot) (mm)		12.2mm	13.1mm
Operation	Operating Temperature		0°C~ 40°C	0°C~40°C
, ,	Humidity		10~80%	10~80%
	Key H/W		Small Signage Display, Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0	Small Touch 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 Speak-	Temperature Sensor, Pivot Display, Clock Battery (168hrs Clock Keeping), Built in Speak-
	Special	H/W S/W	er(SW1ch), IPSx Rating, Wi-Fi  Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speak- er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)
			er(5W1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	er(5W1ch), IPSx Rating, Wi-Fi, 10 Point Touch(Max) Auto Source Switching & Recovery, ILFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)
		S/W Processor	er(SW1ch), IPsx Rating, Wi-FI Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU	er(SW 1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A72 1.7GHz Quad-Core CPU
		S/W Processor On-Chip Cache Memory	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFP Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB	er(5W1ch), IP5x Rating, Wi-Fi, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB
Feature		S/W Processor On-Chip Cache Memory Clock Speed	er(SW1ch), JPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home ul, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ 17GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 3ZKB, L2 Cache : 2MB 1.7GHz
Feature	Special	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface	er(SW1ch), IPSx Rating, Wi-FI Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A72.1.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR4.1.5GHz 64bit
Feature	Special Internal Player	S/W Processor On-Chip Cache Memory Clock Speed	er(SW1ch), JPSx Rating, Wi-FI Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721,7GHz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 17GHz 2.5GB, LPDR4 1.5GHz 64bit Graphic resolution: 1920x1080	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 3ZKB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080
Feature	Special	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR4 1.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.)	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ 17/GHz Quad-Core CPU L1 Instruction Cache : 48/B, ID 184 Cache : 3ZKB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR4 1.5GHz Abit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.)
Feature	Special Internal Player	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM)	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.) 86G (3.886G) Occupied by O/S, 4.12GB Availabile)	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (inital Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 86G (3.88GB Occupied by 0/S, 4.72GB Available)
Feature	Special Internal Player	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ1.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 3ZKB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 86G (3.88GB Occupied by O/S, 41ZGB Available) *Video Decoder : MPEG-1/2/4, H.26S, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, YPB *YAudio Decoder: AC3 (DD), MPEG	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LEP Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 17GHz 2.5GB, LPDDR4 1.5GHz Acbit Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.) 8GG (3.88GB Occupied by O/S, 412GB Available) *Video Decoder: MPEG-1724, H.263, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, *PyP *Audio Decoder: ACS (IOD), MPEG
Feature	Special Internal Player	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 38A0v2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, H.265, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder ACG (DD), MPEG USB 2.0	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, H.26S, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC 3(DD), MPEG USB 2.0
Feature	Special Internal Player (Embedded H/W)	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia	er(SW1ch), JPSx Rating, Wi-FI Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A71-77-6Hz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 1.7GHz 2.5GB, LPDDR4 1.5GHz 64bit Graphic resolution: 1920x(108) Output resolution: 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder: MPEG-1/2/4, H.26S, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder: AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux)	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A17.176Hz Quad-Groe CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPGG-1/2/4, H.26S, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder: ACS (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux)
	Special Internal Player (Embedded H/W) Safety	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.7GHz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 1.7GHz 2.5GB, LPDDR4 1.5GHz 64bit Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.) 86G (3.88GB Occupied by O/S, 412GB Available) *Video Decoder: MPG-G1/24, HZSS, HzA4/McV, UPHO-HzA4/McV, CV-1, HEVC, JPEG, PNG, VPB, VP9 *Audio Decoder: AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home ull, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 3ZKB, L2 Cache: 2MB 1.7GHz 2.5GB, LPDDR4.15GHz Abbit Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.) 86G (3.88GB Occupied by O/S, 412GB Available) *Video Decoder: MPGG-1/2/A L2G3, Hz2AMC, UHD Hz2AGMAVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder: AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1
Feature	Special  Internal Player (Embedded H/W)  Safety EMC	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports	er(SWI/ch.), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ1.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x1260 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O.S., 412GB Available) *Video Decoder : MPEG-172/4, Hz64, Hz64/AVC, UHD Hz64/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder : AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 6/0950-1 Class B	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LEP Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 38A0v2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 41.2GB Available) *Video Decoder : MPEG-1/24, H.263, H.264/AVC, UHD L264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VP9 *Audio Decoder : ACS (ID), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B
	Special Internal Player (Embedded H/W) Safety	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports	er(SWIrch), JPSx Rating, Wi-FI Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A72.17.9Hz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 1.7GHz 2.5GB, LPDDR4 1.5GHz 64bit Graphic resolution: 1920x(108) Output resolution: 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder: MPEG-1/2/4, H.26S, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder: ACS (DID), MPEG USB2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat	er(SW1ch), IPSx Rating, Wir-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LEP Home U, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex A721.76Hz Quad-Core CPU L1 Instruction Cache: 48KB, L1 Data Cache: 32KB, L2 Cache: 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 412GB Available) *Video Decoder: MPGG-1/2/4, H.26S, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder: ACS (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat
	Special  Internal Player (Embedded H/W)  Safety EMC	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ1.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR4 1.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 86G (3.88GB Occupied by O/S, 412GB Available) *Video Decoder : MPGG-1/24, HZSS, HzA24MyC, UPHO HzA24MyC, VC-1, HEVC, JPEG, PNG, VPB, VP9 *Audio Decoder: AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card-Power Cord, Remote Controller, Batteries, Bar Type	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache: 48/B, ID 184 Cache: 32KB, I, 2 Cache: 2MB 1.7GHz 2.5GB, LPDDR4.15GHz Abbit Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4172GB Available) *Video Decoder: MPEG-172/A, H.2G3, H.264/AVC, Q.HD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP "Audio Decoder: AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries, Bar Type
	Special  Internal Player (Embedded H/W)  Safety EMC Environment	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports	er(SWIrch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ1.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 3ZKB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x1260 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O.S., 412GB Available) *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder : AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card/Power Cord, Remote Controller, Batteries, BarType Simple Stand	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LEP Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 38A0x1260 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 41.2GB Available) *Video Decoder : MPEG-1/24, H.263, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder : AC3 (ID), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card, PowerCord, Remote Controller, Batteries, Bar Type Simple Stand, USB Cable
	Internal Player (Embedded H/W)  Safety EMC Environment Included	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports Operating System	er(SW1ch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ1.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR4 1.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 86G (3.88GB Occupied by O/S, 412GB Available) *Video Decoder : MPGG-1/24, HZSS, HzA24MyC, UPHO HzA24MyC, VC-1, HEVC, JPEG, PNG, VPB, VP9 *Audio Decoder: AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card-Power Cord, Remote Controller, Batteries, Bar Type	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache: 48/B, ID 184 Cache: 32KB, I, 2 Cache: 2MB 1.7GHz 2.5GB, LPDDR4.15GHz Abbit Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4172GB Available) *Video Decoder: MPEG-172/A, H.2G3, H.264/AVC, Q.HD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP "Audio Decoder: AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries, Bar Type
Certification	Special  Internal Player (Embedded H/W)  Safety EMC Environment	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports Operating System  Stand Mount	er(SWIrch), IPSx Rating, Wi-Fi Auto Source Switching & Recovery, LFD Home UB, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ1.7GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 3ZKB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 3840x1260 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O.S., 412GB Available) *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder : AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card/Power Cord, Remote Controller, Batteries, BarType Simple Stand	er(SW1ch), IPSx Rating, Wi-F, 10 Point Touch(Max) Auto Source Switching & Recovery, LEP Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Cortex APZ17GHz Quad-Core CPU L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB 1.7GHz 2.5GB, LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 38A0x1260 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 41.2GB Available) *Video Decoder : MPEG-1/24, H.263, H.264/AVC, UHD H.264/AVC, VC-1, HEVC, JPEG, PNG, VPB, VPP *Audio Decoder : AC3 (ID), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 8.0, Epeat Quick Setup Guide, Warranty Card, PowerCord, Remote Controller, Batteries, Bar Type Simple Stand, USB Cable
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