# Samsung SMART Signage **QBR** Series

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

Through intelligent UHD upscaling technology, Samsung's QBR series performs edge restoration and noise reduction to deliver UHD picture quality even with lower resolution content. Backed by Tizen 4.0, the QBR 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 innovative UHD upscaling technology and unique picture-enhancing features
- Dynamic Crystal Color allows viewers to enjoy a wider spectrum of colors, up to one billion shades
- New symmetrical, slim design simplifies installation and complements any environment.
- Secure, PC-free operation through Knox and rigid three-layer protection

# **SAMSUNG**

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For more information about Samsung SMART Signage QBR Series Displays, visit

www.samsung.com/business or www.samsung.com/displaysolutions

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the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, medical equipment, network systems, and semiconduc-

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**SMART Signage** 





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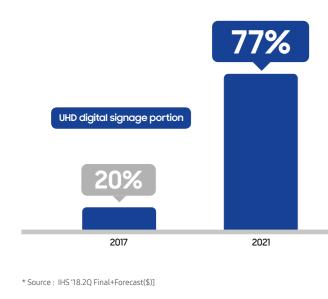
WIND PLATER IN LITE

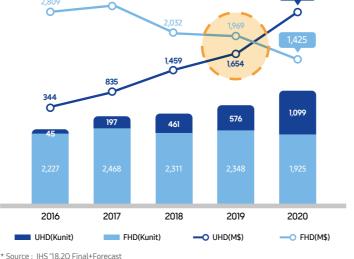
# Industry trend

With visual display technology improving across devices, viewers have developed an ever-growing expectation for better picture quality. Additionally, the market has been flooded with a wide variety of color techologies and it's becoming increasingly important for businesses to have rich and vivid display capabilities. As UHD resolution continues to grow in popularity, it is essential for businesses to deliver superb picture quality for their customers. Low quality displays and signage can create negative perceptions of a business. While much content is still being produced at a lower resolution, through Intelligent UHD upscaling technology, Samsung's QBR series is able to upscale even the lowest resolution content to UHD picture quality standards.

#### UHD resolution is must-have feature in the future

UHD sales forecasted to exceed FHD in 2019





<sup>\*</sup> Note : Standalone digital signage only

Consumer TVs, along with Commercial Lite and Hospitality TVs used for signage are excluded.

# Why Samsung's QBR series?

Samsung's superior visual display technology has positioned them as the industry leader in the digital signage market for a decade and in the TV market for 12 years. As an expert in picture quality in the display industry, Samsung is able to deliver bestin-class picture quality through their new QBR series. The signage provides rich and flawless colors, sleek and durable design, powerful performance through Tizen 4.0 and secured protection. Samsung's QBR series is also able to upscale even the lowest 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.

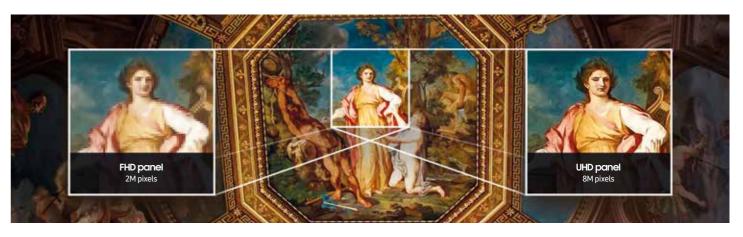






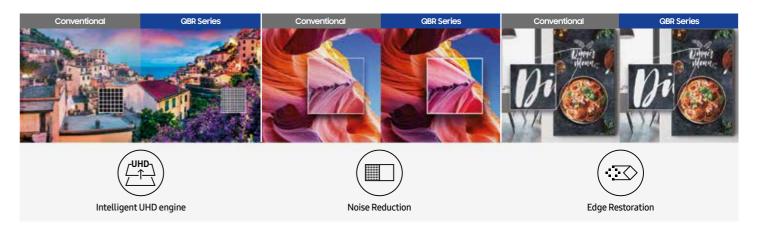


### **Key features**



#### Incredible 4K picture quality

Samsung's new QBR 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.



#### Intelligent UHD upscaling

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 most powerful video processor available. Additionally, intelligent UHD upscaling technology is a cutting-edge solution based on Samsung's proprietary intelligent UHD engine 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 color

Dynamic Crystal Color 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 QBR series also features HDR10+ functionality that converts standard definition (SDR) content to HDR quality for sharper contrast and more vivid colors.

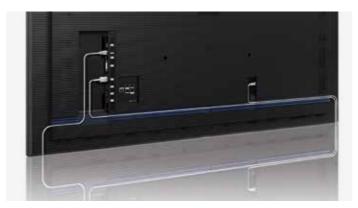
# **Key features**





### Slim and symmetrical design

The all-new slim and symmetrical design of the QBR 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 QBR 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 QBR 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.



#### 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 QBR 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.

\* Image is for illustrative purposes only, specific application or program may have to be developed for the depicted usage scenario.

# **Specifications**

	Model		QB43R	QB49R
	Diagonal Cire	Class	43	49
	Diagonal Size	Measured	42.5	48.5
	Туре		Edge LED BLU	Edge LED BLU
	Resolution		UHD (3840 x 2160)	UHD (3840 x 2160)
	Pixel Pitch (mm)		0.2451 x 0.2451	0.093 x 0.279
	Active Display Area		941.184 (H) x 529.416 (V)	1073.78(H) x 604.00(V)
Panel	Brightness(Typ.)		350	350
	Contrast Ratio (Typ.)		5000:1	4700:1
	Viewing Angle(H/V)		178/178	178/178
	Response Time (G to G)		8ms(Typ.)	8ms(Typ.)
	Display Colors		16.7M	16.7M
	ColorGamut		92%	92%
	Operation Hour		16/7	16/7
	Haze		2%	2%
	Dynamic C/R		MEGA	MEGA
Display	H-Scanning Frequency		30~81kHZ	30~81kHZ
	V-Scanning Frequency		48~75HZ	48~75HZ
	Maximum Pixel Frequency			
		Jency	594MHz	594MHz
Sound	Speaker Type		Built in Speaker(10W +10W)	Built in Speaker(10W +10W)
		RGB	DVI-D	DVI-D
		VIDEO	HDMI 2.0 (2)	HDMI 2.0 (2)
	INPUT	HDCP	HDCP2.2	HDCP2.2
Connectivity		AUDIO	Stereo Mini Jack, DVI/HDMI/	Stereo Mini Jack, DVI/HDMI/
			Audio(Common)	Audio(Common)
		USB	USB 2.0 x 2	USB 2.0 x 2
		RGB	N/A	N/A
Connectivity		VIDEO	N/A	N/A
	OUTPUT	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, I
	EXTERNAL SENSOR		RSZSZC(III/OUL) UIU SLEIEO JACK, RS45	RSZSZC(III/OUL) U II U SLETEO JACK, I IR
	Tuner			
			N/A	N/A
	Туре		Internal	Internal
	Power Supply		AC100 - 240 V~ (+/-10 %), 50/60 Hz	AC100 - 240 V~ (+/-10 %), 50/6
	PowerConsumption	Max[W/h]	TBU	138
Power		Typical[W/h]	TBU	103
Powei		Rating[W/h]	TBU	125
		BTU(Max)	TBU	351.2
		Sleep mode	0.5	0.5
		Off mode	N/A	N/A
		Set	967.5 x 557.7 x 48.3	1099.2 x 631.5 x 46.3
	Dimension(mm)	Package	1095 x 676 x 151	1247 x 772 x 152
		-		
Mechanical Spec	Weight (kg)	Set	10	13.5
		Package	13.3	18
	VESA Mount Protection Glass		200 X 200	200 X 200
			N/A	N/A
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)
	Bezel Width (Top/Side/Bot) (mm)		9.2mm(U/L/R),11.2mm(B)	9.2mm(U/L/R),11.2mm(B)
Operation	Operating Temperatu	ure	0°C~ 40°C	0°C~ 40°C
.p	Humidity		10~80%	10~80%
	1/au		UHD Signage Display	UHD Signage Display
	Key		Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0	Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.
			Temperature Sensor, Pivot Display,	Temperature Sensor, Pivot Disp
				Clock Battery(168hrs Clock Keep
		H/W	Clock Battery(168hrs Clock Keeping),	
	Cooriel	H/W	Built in Speaker(10W 2ch), IP5x Rating,	Built in Speaker(10W 2ch), IP5x Ra
	Special	H/W	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT	Built in Speaker(10W 2ch), IP5x Ra Wi-Fi/BT
	Special	H/W S/W	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key	Built in Speaker(10W 2ch), IP5x Ra Wi-Fi/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot
	Special	S/W	Built in Speaker(10W 2ch), IP5x Rating, Wi-FI/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)	Built in Speaker(10W 2ch), IP5x Ra Wi-Fi/BT Auto Source Switching & Recow LFD Home UI, Button Lock, Hot option, Plug&Play (Initial Settir
	Special	S/W Processor	Built in Speaker(10W 2ch), IP5x Rating, Wi-F/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU	Built in Speaker(10W 2ch), IP5x Ra Wi-Ft/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Plug&Play (Initial Settir Coretex A72 1.7GHz Quad-Core C
	Special	S/W Processor On-Chip	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB	Built in Speaker(10W 2ch), IP5x Ra Wi-Fi/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Plug&Play (Initial Settir Coretex A72 1.7GHz Quad-Core C L1 Instruction Cache : 48KB
	Special	S/W Processor	Built in Speaker(10W 2ch), IP5x Rating, Wi-F/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU	Built in Speaker(10W 2ch), IP5x Ra Wi-Ft/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Plug&Play (Initial Settir Coretex A72 1.7GHz Quad-Core C
	Special	S/W Processor On-Chip Cache	Built in Speaker(10W 2ch), IP5x Rating, Wi-F/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB	Built in Speaker(10W 2ch), IPSx Ra Wi-Fi/BT Auto Source Switching & Recow LFD Home UI, Button Lock, Hot option, Plug&Play (Initial Settir Coretex A7217GHz Quad-Core C L1 Instruction Cache : 48KB L1 Data Cache : 32KB
Feature	Special	S/W Processor On-Chip Cache Memory	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 1.7GHz	Built in Speaker(10W 2ch), IPSx Ra Wi-Fi/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Plug&Play (Initial Settir Coretex A7217GHz Quad-Core C L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 1.7GHz
Feature	Special	S/W Processor On-Chip Cache Memory Clock Speed Main Memory	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2KB 1.7GHz 2.5GB	Built in Speaker(10W 2ch), IPSx R: W-Fr/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Plug&Play(Initial Setti Coretex A721.7GHz Quad-Core ( L1 Instruction Cache : 48/KB L1 Data Cache : 32/KB L2 Cache : 2MB 1.7GHz 2.5GB
Feature	Special	S/W Processor On-Chip Cache Memory Clock Speed Main	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit	Built in Speaker(10W 2ch), IPSx R: W-Fr/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Plug&Play(Initial Setti Coretex A72.17GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 52KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit
Feature	Special	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface	Built in Speaker(10W2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex 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	Built in Speaker(10W 2ch), IPSx R: Wi-Fi/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Plug&Play (Initial Setti Coretex A72.17GHz Quad-Core ( L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 1920x108
Feature		S/W Processor On-Chip Cache Memory Clock Speed Main Memory	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit	Built in Speaker(10W 2ch), IPSx R: W-Fr/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Plug&Play(Initial Setti Coretex A72.17GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 52KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit
Feature	'Internal Player	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex 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.) 8GB (3.886B Occupied by 0/S,	Built in Speaker(10W 2ch), IPSx R; WH-FUBT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A7217GHz Quad-Core O L1 Instruction Cache: 48KB L1 Data Cache: 32KB L1 Data Cache: 32KB L2 Cache : 2MB 17GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 1920x108 Output resolution : 3840x2160 (5 up from graphic processing ress 8GB (3.88GB Occupied by 0/5
Feature	'Internal Player	S/W Processor On-Chip Cache Memory Interface Graphics	Built in Speaker(10W 2ch), IP5x Rating, Wi-FL/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 24KB L2 Cache : 24MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 1920x1080 Output resolution : 340x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available)	Built in Speaker(10W 2ch), IPSx R: WH-FUBT Auto Source Switching & Recow LPD Home UI, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A721.7GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution: 384040.2160 (5 up from graphic processing ress. 8GB (3.88GB Occupied by 0% 4.12GB available)
Feature	'Internal Player	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2XB L2 Cache : 2XB L2Cache : 2XB Cache : Cache Cache : Cache : Ca	Built in Speaker(10W 2ch), IPSx R: W-Fi/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Plug&Play(Initial Setti Cortex A7217GHz Quad-Core ( L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 3840x2100 (5 Output resolution : 3840x2100 (5) Uup from graphic processing ress 86G (3.88GB Occupied by 0): 4.12GB Available) *Video Decoder : MPEG-17/24, H
Feature	'Internal Player	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex 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) 8GB (3:88GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, VI-T).	Built in Speaker(10W 2ch), IPSx R: WH-FUBT Auto Source Switching & Recov LFD Home U, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A7217GHz Quad-Core O L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LFDDR41.5GHz 64bit Graphic resolution : 1920x108 Output resolution : 3840x2160 (5 up from graphic processing ress 8GB (3:88G Occupied by 0/5 4.12GB Available) *Video Decoder : MPEG-1/2/4, H 4.264/AVC, UHD L524/AVC, V
Feature	'Internal Player	S/W Processor On-Chip Cache Memory Interface Graphics Storage (FDM)	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2XB L2 Cache : 2XB L2Cache : 2XB Cache : Cache Cache : Cache : Ca	Built in Speaker(10W 2ch), IPSx R: W-Fi/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Plug&Play(Initial Setti Cortex A7217GHz Quad-Core ( L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 3840x2100 (5 Output resolution : 3840x2100 (5) Uup from graphic processing ress 86G (3.88GB Occupied by 0): 4.12GB Available) *Video Decoder : MPEG-17/24, H
Feature	'Internal Player	S/W Processor On-Chip Cache Memory Interface Graphics Storage (FDM)	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Pug&Play (Initial Setting) Coretex 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 : 3920x1080 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.263, H.264,AWC, UHD L264,AVC, VC-1, AVS+, HEVC, JPEG, PNG, VPB, Yan-	Built in Speaker(10W 2ch), IPSx R: W-Fr/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Pug&Play(Initial Setti Coretex A721.7GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution: 1920/108 Output resolution: 3840/a02160 (5 up from graphic processing resu 86G (3.88GB Occupied by 0/5) 412CB Available) *Video Decoder: MPEG-1/2/4, H H264/AVC, UHE G, PMS, VP8, VP9
Feature	'Internal Player	S/W Processor On-Chip Cache Memory Interface Graphics Storage (PDM) Multimedia IO Ports Operating	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 27KB L2 Cache : 20KB (S 88CB Occupied by 0/S, 412GB Available) *Video Decoder : MPEG-1/2/4, H263, H264/AVC, UHD H264/AVC, VC-1, AVS+, HEVC, JPEC, PNG, VPR, VpP Au- dio Decoder : AC3 (DD), MPEG	Built in Speaker(10W 2ch), IPSx R: W-Fr/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Plug&Play(Initial Setti Coretex A72.17GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR4.15.GHz 64bit Graphic resolution: 3840-2160 (S Output resolution: 3840-2160 (S AUSG B CacBacalable) *Video Decoder: MPEG-1/2/4, H H264/AVC, UHD H264/AVC, WAS+, HEVC, JPEG, PNG, VP8, VP9 dio Decoder: AC3 (DD), MPEC
Feature	"Internal Player (Embedded H/W)"	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Storage (FDM) Multimedia IO Ports	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LPD Home UI, Button Lock, Hot key option, Pug&Play (Initial Setting) Coretex 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 Graphic resolution : 1920x1080 Output resolution : 1920x1080 Output resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8G (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, L263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VPB, VPP *Au- dio Decoder : AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux)	Built in Speaker(10W 2ch), IPSx R: WI-Ft/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Pug&Play(Initial Setti Coretex A721.7GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution: 3840.0x2160 (5 output resolution: 3840.0x2160 (5 up from graphic processing ress 86B (3.88GB Occupied by O/S 4.12CB Available) *Video Decoder : MPEG-17/24, H H.264/AVC, UHD H.264/AVC, VV AVS+, HEVC, JPEG, PNG, VPB, VP9 dio Decoder : AC3 (DD), MPEC USB 2.0 Tizen 4.0 (VDLinux)
	'Internal Player (Embedded H/W)' Safety	S/W Processor On-Chip Cache Memory Interface Graphics Storage (PDM) Multimedia IO Ports Operating	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 27KB L2 Cache : 20KB (S 88CB Occupied by 0/S, 412GB Available) *Video Decoder : MPEG-1/2/4, H263, H264/AVC, UHD H264/AVC, VC-1, AVS+, HEVC, JPEC, PNG, VPR, VpP Au- dio Decoder : AC3 (DD), MPEG	Built in Speaker(10W 2ch), IPSx R: W-Fr/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Plug&Play(Initial Setti Coretex A72.17GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR4.15.GHz 64bit Graphic resolution: 3840-2160 (S Output resolution: 3840-2160 (S AUSG B CacBacalable) *Video Decoder: MPEG-1/2/4, H H264/AVC, UHD H264/AVC, WAS+, HEVC, JPEG, PNG, VP8, VP9 dio Decoder: AC3 (DD), MPEC
Feature	"Internal Player (Embedded H/W)"	S/W Processor On-Chip Cache Memory Interface Graphics Storage (PDM) Multimedia IO Ports Operating	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LPD Home UI, Button Lock, Hot key option, Pug&Play (Initial Setting) Coretex 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 Graphic resolution : 1920x1080 Output resolution : 1920x1080 Output resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8G (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, L263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VPB, VPP *Au- dio Decoder : AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux)	Built in Speaker(10W 2ch), IPSx R: WI-Ft/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Pug&Play(Initial Setti Coretex A721.7GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution: 3840.0x2160 (5 output resolution: 3840.0x2160 (5 up from graphic processing ress 86B (3.88GB Occupied by O/S 4.12CB Available) *Video Decoder : MPEG-17/24, H H.264/AVC, UHD H.264/AVC, VV AVS+, HEVC, JPEG, PNG, VPB, VP9 dio Decoder : AC3 (DD), MPEC USB 2.0 Tizen 4.0 (VDLinux)
	'Internal Player (Embedded H/W)' Safety	S/W Processor On-Chip Cache Memory Interface Graphics Storage (PDM) Multimedia IO Ports Operating	Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 38Q02160 (Scale up from graphic processing result.) 8GG (3.88GB Occupied by 0/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PMG, VP8, VP9 *Au- dio Decoder : AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1	Built in Speaker(10W 2ch), IPSx R: Wi-Fi/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Pug&Play(Initial Setti Coretex A721.7GH2 Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR41.5GH2 64bit Graphic resolution: 3840.402160 (5 0 utp tre oslution: 1920.0108 0 utp tre os
	"Internal Player (Embedded H/W)" Safety EMC Environment	S/W Processor On-Chip Cache Memory Interface Graphics Storage (PDM) Multimedia IO Ports Operating	Built in Speaker(10W 2ch), IP5x Rating, Wi-FI/BT Auto Source Switching & Recovery, LPD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex 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 : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 86 (3.88 GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, L263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Au- dio Decoder : AC3 (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 70 (USA) Quick Setup Guide, Warranty Card,	Built in Speaker(10W2ch), IPSx R: WH-FUBT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A721.7GHz Quad-Core (C L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2MB 1.7GHz 2.5GB LPDDR1.5GHz 64bit Graphic resolution: 1920x108 Output resolution: 3840x2160 (S up from graphic processing res: 8 BG (3.88GB Occupied by 0/X 4.12GB Available) *Video Decoder : MPCG-172/4, H H264/AVC, UHD L264/AVC, VU AVS+, HEVC, JPEG, PNG, VP8, VP9 dio Decoder : AFCG (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR.70 (USA) Quick Setup Guide, Warranty Cz
	'Internal Player (Embedded H/W)' Safety EMC	S/W Processor On-Chip Cache Memory Interface Graphics Storage (PDM) Multimedia IO Ports Operating	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Output resolution : 1920x1080 O	Built in Speaker(10W 2ch), IPSx R W-Fr/BT Auto Source Switching & Recov LFD Home UI, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A7217GHz Quad-Core O L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 2KB L2 Cache: 2KB L7GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution: 1920x108 Output resolution: 1920x108 Output resolution: 3840x2160 (S up from graphic processing ress 8GB (3.88G Docupied by 0/ 4.12GB Available) *Video Decoder: MPEG-1/2/, H H264/AVC, UHD H264/AVC, V AVS+, HEVC, JPEG, PNG, VPB, VPP dio Decoder: AC3 (DD), MPEC USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR.70 (USA) Quick Setup Guide, Warnahy CG Power Cond, Remote Controlle
	"Internal Player (Embedded H/W)" Safety EMC Environment	S/W Processor On-Chip Cache Memory Interface Graphics Storage (FDM) Multimedia IO Ports Operating System	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 2.5GB L2 Cache : 2MB 0.00000000000000000000000000000000000	Built in Speaker(10W 2ch), IPSx R W-Fr/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A721.7GHz Quad-Core O L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 22KB L2 Cache: 22KB DDR41.5GHz 64bit Graphic resolution: 3840x2160 (5 up from graphic processing ress & GG (3.85KB Occupied by 0/ 4.12GB Available) *Video Decoder : MPCG-17/24, H H.264/AVC, UHD H.264/AVC, VI AVS+, HEVC, JPEG, PNG, VPB, VPP dio Decoder : AC3 (DD), MPEC USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 7.0 (USA) Quick Setup Guide, Warranty C2 Power Cord, Remote Controlle Batteries
	"Internal Player (Embedded H/W)" Safety EMC Environment	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Graphics Storage (FDM) Nuttimedia IO Ports Operating System	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 77GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 3240x2160 (Scale up from graphic processing result) 8GB (1388G Deccupied by 0/S, 4.12GB Available) *Video Decoder : MPEG-1/24, H.263, H.264Available) *Video Decoder : ACS (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 7.0 (USA) Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries STN-L4355F	Built in Speaker(10W 2ch), IPSx R W-Fr/BT Auto Source Switching & Recov LFD Home U, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A7217GHz Quad-Core O L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 22KB L2 Cache: 22KB L2 Cache: 22KB L2 Cache: 22KB UDDR41.5GHz 64bit Graphic resolution: 13840x2160 (S up from graphic processing ress 8KB (138KB Occupied by 0/ 4.12GB Available) *Video Decoder: MPEG-172/4, H H.264/AVC, UHD H.264/AVC, V AVS+, HEVC, JPEG, PNG, VP8, VP9 dio Decoder: AC3 (DD), MP20 USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 7.0 (USA) Quick Setup Guide, Warranty Cz Power Cord, Remote Controlle Batteries
Certification	"Internal Player (Embedded H/W)" Safety EMC Environment	S/W Processor On-Chip Cache Memory Interface Graphics Storage (FDM) Multimedia IO Ports Operating System	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 2.5GB L2 Cache : 2MB 0.00000000000000000000000000000000000	Built in Speaker(10W 2ch), IPSx R W-Fr/BT Auto Source Switching & Recov LPD Home UI, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A721.7GHz Quad-Core O L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 22KB L2 Cache: 22KB DDR41.5GHz 64bit Graphic resolution: 3840x2160 (5 up from graphic processing ress & GG (3.85KB Occupied by 0/ 4.12GB Available) *Video Decoder : MPCG-17/24, H H.264/AVC, UHD H.264/AVC, VI AVS+, HEVC, JPEG, PNG, VPB, VPP dio Decoder : AC3 (DD), MPEC USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 7.0 (USA) Quick Setup Guide, Warranty C2 Power Cord, Remote Controlle Batteries
Certification	"Internal Player (Embedded H/W)" Safety EMC Environment Included	S/W Processor On-Chip Cache Memory Clock Speed Main Memory Interface Graphics Graphics Storage (FDM) Multimedia IO Ports Operating System	Built in Speaker(10W 2ch), IP5x Rating, Wi-Ft/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB 77GHz 2.5GB LPDDR41.5GHz 64bit Graphic resolution : 3240x2160 (Scale up from graphic processing result) 8GB (1388G Deccupied by 0/S, 4.12GB Available) *Video Decoder : MPEG-1/24, H.263, H.264Available) *Video Decoder : ACS (DD), MPEG USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 7.0 (USA) Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries STN-L4355F	Built in Speaker(10W 2ch), IPSx R W-Fr/BT Auto Source Switching & Recov LFD Home U, Button Lock, Hot option, Pug&Play (Initial Setti Coretex A7217GHz Quad-Core O L1 Instruction Cache: 48KB L1 Data Cache: 32KB L2 Cache: 22KB L2 Cache: 22KB L2 Cache: 22KB L2 Cache: 22KB UDDR41.5GHz 64bit Graphic resolution: 13840x2160 (S up from graphic processing ress 8KB (138KB Occupied by 0/ 4.12GB Available) *Video Decoder: MPEG-172/4, H H.264/AVC, UHD H.264/AVC, V AVS+, HEVC, JPEG, PNG, VP8, VP9 dio Decoder: AC3 (DD), MP20 USB 2.0 Tizen 4.0 (VDLinux) 60950-1 Class B ENERGY STAR 7.0 (USA) Quick Setup Guide, Warranty Cz Power Cord, Remote Controlle Batteries

QB55R QB65R QB75R 65 54.6 64.5 74.5 Fdae I FD BI U Edge | ED BLU Fdae I FD BI U UHD (3840 x 2160) UHD (3840 x 2160) UHD (3840 x 2160) 0.105 x 0.315 0.372 x 0.372 0.42975 x 0.42975 1209.6(H) x 680.4(V) 1428.48 (H) x 803.52 (V) 1650.24 (H) x 928.26 (V) 350 350 350 4700:1 4000:1 4000:1 178/178 178/178 178/178 8ms(Typ.) 8ms(Typ.) 8ms(Tvp.) 16.7M 16.7M 16.7M 92% 92% 92% 16/7 16/7 16/7 2% 2% 2% MFGA MFGA MEGA 30 ~ 81kH7 30 ~ 81kHZ 30~81kH7 48~75HZ 48~75HZ 48~75HZ 594MHz 594MHz 594MHz Built in Speaker(10W +10W) Built in Speaker(10W+10W) Built in Speaker(10W+10W) DVI-D DVI-D DVI-D HDMI 2.0 (2) HDMI 2 0 (2) HDMI 2.0 (2) HDCP2.2 HDCP2.2 HDCP2.2 Stereo Mini Jack, DVI/HDMI/ Audio(Common) Stereo Mini Jack, DVI/HDMI, Stereo Mini Jack, DVI/HDMI/ Audio(Com USB20x2 USB20x2 USB20x2 N/A N/A N/A N/A N/A N/A Stereo Mini Jack Stereo Mini Jack Stereo Mini Jack N/A N/A N/A N/A N/A N/A RS232C(in/out) thru stereo jack, RJ45 RS232C(in/out) thru stereo jack, RJ45 RS232C(in/out) thru stereo jack, RJ45 IR IR IR N/A N/A N/A Internal Internal Internal AC100 - 240 V~ (+/-10 %), 50/60 Hz AC100 - 240 V~ (+/-10 %), 50/60 Hz AC100 - 240 V~ (+/-10 %), 50/60 Hz 143 TBU TBU 108 TBU TBU 130 TBU TBU 487.6 TBU TBU 0.5 0.5 0.5 N/A N/A N/A 1235.1 x 707.9 x 46.3 1453.9 x 831.0 x 46.3 1681.1 x 960.1 x 49.7 1402 x 858 x 163 1611 x 973 x 185 1871 x1127 x 223 38.3 18.1 24.9 33.3 23.6 49 200 X 200 400 X 400 400 X 400 N/A N/A N/A Foot Stand (Optional) No No 11.5mm(U/L/R),12.5mm(B) 9.2mm(U/L/R), 11.2mm(B) 9.2mm(U/L/R), 11.2mm(B) 0°C~ 40°C 0°C~ 40°C 0°C~ 40°C 10~80% 10~80% 10~80% UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Femperature Sensor,Pivot Display, UHD Signage Display UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 emperature Sensor, Pivot Display Temperature Sensor, Pivot Display Clock Battery(168hrs Clock Keeping Clock Battery(168hrs Clock Keeping Clock Battery(168hrs Clock Keeping Built in Speaker(10W 2ch), IP5x Rating Built in Speaker(10W 2ch), IP5x Ratin uilt in Speaker(10W 2ch), IP5x Rating Wi-Fi/BT Wi-Fi/BT Wi-Fi/BT Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) option, Plug&Play (Initial Setting) option, Plug&Play (Initial Setting) Coretex A721.7GHz Quad-Core CPU Coretex A721.7GHz Quad-Core CPU Coretex A721.7GHz Quad-Core CPU L1 Instruction Cache : 48KB L1 Instruction Cache : 48KB L1 Instruction Cache : 48KB L1 Data Cache : 32KB L1 Data Cache : 32KB L1 Data Cache : 32KB 12 Cache : 2MB 12 Cache : 2MB 12 Cache : 2MB 1.7GHz 1.7GHz 1.7GHz 25GB 2 5GB 2 5GB LPDDR41.5GHz 64bit LPDDR41.5GHz 64bit LPDDR41.5GHz 64bit Graphic resolution : 1920x1080 Graphic resolution : 1920x1080 Graphic resolution : 1920x1080 Output resolution · 3840x2160 (Scale Output resolution - 3840x2160 (Scale Output resolution · 3840x2160 (Scale up from graphic processing result.) up from graphic processing result.) up from graphic processing result.) 8GB (3.88GB Occupied by O/S. 8GB (3.88GB Occupied by O/S. 8GB (3.88GB Occupied by O/S. 4.12GB 4.12GB Available) 4.12GB Available) Available) \*Video Decoder : MPEG-1/2/4, H.263, Decoder : MPEG-1/2/4, H.263, Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, H.264/AVC. UHD H.264/AVC. VC-1. H.264/AVC, UHD H.264/AVC, VC-1. AVS+, HEVC, JPEG, PNG, VP8, VP9 \*Au AVS+, HEVC, JPEG, PNG, VP8, VP9 \*Au AVS+, HEVC, JPEG, PNG, VP8, VP9 \*Au dio Decoder : AC3 (DD), MPEG der : AC3 (DD), MPEG dio Decoder : AC3 (DD), MPEG dio D USB 2.0 USB2.0 USB 2.0 Tizen 4.0 (VDI inux) Tizen 4.0 (VDL inux) Tizen 4.0 (VDI inux) 60950-1 60950-1 60950-1 Class B Class B Class B ENERGY STAR 7.0 (USA), Epeat ENERGY STAR 7.0 (USA), Epeat ENERGY STAR 7.0 (USA), Epeat Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Quick Setup Guide, Warranty Card Quick Setup Guide, Warranty Card, ver Cord, Remote Controller, Batteries Power Cord, Remote Controller Batteries Batteries STN-L4355F No No WMN4277SE WMN6575SE WMN40705F WMN4277SE CMI 400XK CMI 450K CMI 450K N/A N/A N/A