Explore True Color of the Sea

SAMSUNG SMART SIGNAGE QHH SERIES

Transform Customer Engagement through Next-Generation QLED Composition and True-To-Life Picture Quality

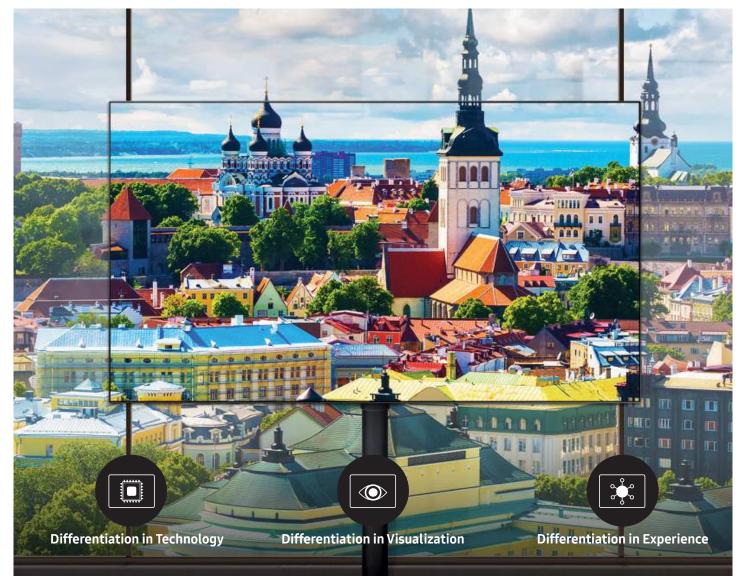
With the introduction of its new quantum-dot powered QHH Series QLED Signage, Samsung has elevated the traditional content experience with more lifelike quality guaranteed to deliver an unexpected viewing environment that resonates. The QHH Series displays can showcase more than one billion colors at 100 percent color volume, and produce deep blacks, pristine whites and sharp hues that make any picture pop. And with portrait and landscape configurations available, businesses can customize the displays to meet their unique operational needs and reach the widest audience possible without any added hassle or expense. Through this next-generation presentation, Samsung's QHH Series displays deliver the enhanced brilliance, detail and realism necessary to cut through the clutter and fuel interactive, ongoing business growth.

HIGHLIGHTS

- Achieve exceptional picture quality through a state-of-the-art quantum dot composition
- Deliver one billion colors precisely and at 100 percent volume in any brightness setting
- Accommodate unique environment dimensions with flexible portrait and landscape configurations
- Amplify graphic performance and content security within the powerful TIZEN 3.0 operating system
- Eliminate burn-in and color presentation variation during content transitions

SAMSUNG

WHY QLED SIGNAGE?



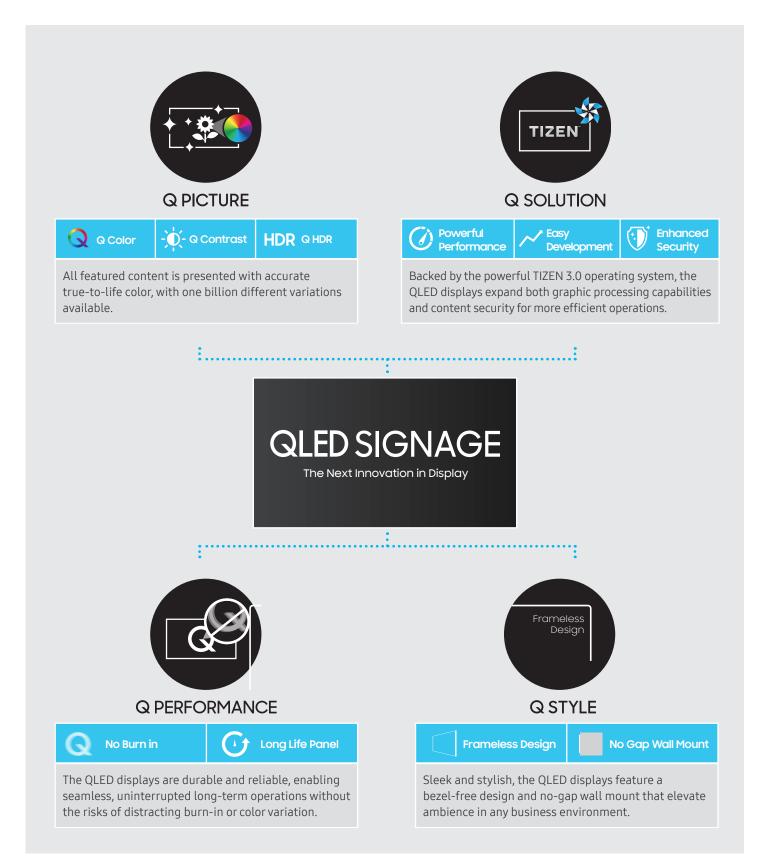
SAMSUNG'S QLED SIGNAGE: UNLOCK NEW GROWTH OPPORTUNITIES

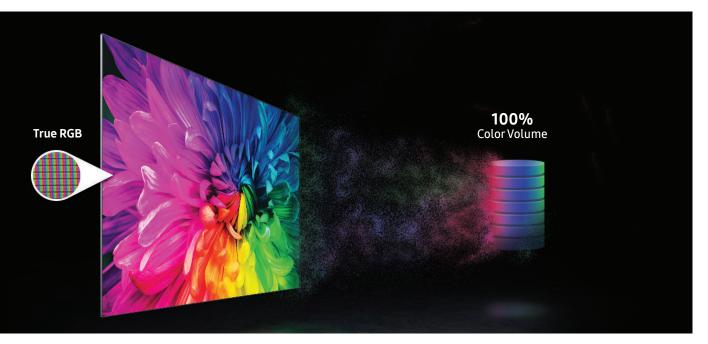
As businesses seek new ways to attract audiences and improve efficiency in increasingly-crowded environments, many are turning to advanced digital signage as a way to break through the clutter. By integrating quantum dot visual refinement technology, Samsung's QLED Signage offers these businesses an even greater competitive edge. An immersive high-quality picture creates a more memorable, attractive and buzzworthy customer experience. Beyond their external communication benefits, the QLED Signage displays additionally reinforce business branding through accurate and clean logo and color presentation. Through this diverse host of features, Samsung's QLED Signage is the perfect addition to generate additional revenue and strengthen customer loyalty.

QLED SIGNAGE: A VISUAL DISPLAY EVOLUTION

ELEVATE YOUR BUSINESS WITH NEXT-GENERATION CONTENT

As the world's leading digital signage company, Samsung Electronics has forged its reputation through an unwavering commitment to innovation. And while most companies simply play in the commercial display space, Samsung has redefined it. With its QLED technology ushering the next era of interaction, Samsung has created new possibilities to bring previously untapped content to the B2B space. These displays deliver the clearest and most crisp picture possible, and accommodate any setting through B2Bspecific features, including:





SHOWCASE ONE BILLION COLORS WITH OPTIMAL PRECISION

Through compatibility with a variety of color spectra, the QHH Series displays achieve 100 percent color volume at optimal integrity for one billion different colors. This enhanced presentation brings even the most subtle visual details forward at varying levels of brightness, and fosters more realistic content within any indoor environment. As a result, retailers and other indoor businesses reliant on true-to-life product presentation can better drive purchase intent and improve customer satisfaction.



AMPLIFY IMMERSION THROUGH ENHANCED BRIGHTNESS AND PRESENTATION

The quantum dot integration enables Samsung's new QLED Signage to balance light and dark brightness (600nit in landscape and 500nit in portrait) and preserve gradation for a presentation that is deeper and more realistic than that offered by conventional alternatives. Through enhanced, semiconductor-based picture refinement technology, the QHH Series displays produce deeper blacks, sharper whites and more precise colors for an eye-catching picture that pops. In turn, businesses in any environment can deliver a truly immersive and captivating viewing experience without worrying about external interference.

Q PICTURE



DELIVER ANY CUSTOMER-FACING CONTENT AT HDR QUALITY

The QHH Series displays leverage HDR picture refinement technology to deliver a range of static and motion content as intended and without compromising visual quality. This includes support for both the HDR10 picture presentation standard and HDR+ technology. Through HDR10 compatibility, indoor businesses can guarantee that all featured content meets ultra-HDR guidelines and reaches customers as clearly and brightly as possible. The complementary HDR+ functionality additionally allows businesses to surpass industry limitations by converting standard definition (SDR) content to HDR quality quickly and efficiently. This flexibility grants businesses new opportunities to create high quality, HDR-ready content amplified by sharp contrast, vivid color depth and seamless streaming.



ENLIVEN COMMERCIAL CONTENT WITH UHD PICTURE QUALITY

Featuring state-of-the-art UHD picture quality, the QHH Series displays empower users to create and deliver impactful messaging. Each QHH Series display showcases content with four times the ultra realistic detail and clarity of standard alternatives, with a wider screen offering more space for text and imagery. When combined with performance features, such as portrait mode and extended durability, the next-level presentation makes the QHH Series ideal for any commercial setting.

Q SOLUTION



EXPAND OPERATIONAL CAPABILITIES THROUGH THE POWERFUL TIZEN 3.0 OS

Samsung's QLED displays are the first in its lineup to feature the fifth generation SMART Signage Platform (SSSP 5.0), powered by the versatile TIZEN 3.0 operating system. Within TIZEN 3.0, indoor business users can elevate content with advanced graphics and achieve true UHD playback through a dedicated quad core CPU. TIZEN 3.0's rigid three-layer security structure also restricts file data access to a limited user base, and perfectly accommodates government, financial and other information-based businesses reliant on information protection.

Q PERFORMANCE



CAPTIVATE AUDIENCES OVER LONG DURATIONS WITHOUT INTERRUPTION

Durable and reliable, Samsung's QLED displays provide interruption-free long-term performance to meet the operational demands of various indoor settings. As content progresses, these reinforced displays deter burn-in and prevent potential viewer confusion and distraction. Additionally, each QLED display is engineered to maintain consistent color integrity even during periods of extended use. This maintenance free consistency allows business leaders to focus on other critical growth areas without worrying about content presentation quality.

Q STYLE



INCREASE IMMERSION THROUGH A FRAMELESS, EASY-TO-INSTALL DESIGN

With a pristine and sophisticated composition, the QHH Series displays add style and ambience to any indoor environment. The displays' frameless design extends the overall available viewing space while ensuring viewers' eyes remain focused on the featured content, rather than on the display itself. A no-gap wall mount further enables users to cleanly implement the QHH Series displays, all while eliminating a common source of visual distraction and conserving valuable retail space.



SPECIFICATIONS

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Feature H/W Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Wi-Fi/BT Special NW Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Processor Coretex A72.17.GHz Quad-Core CPU Coretex A72.17.GHz Quad-Core CPU On-Chip Cache Memory L'I Instruction Cache : 48KB / L1 Data Cache : 32KB L'I Instruction Cache : 48KB / L1 Data Cache : 32KB Clock Speed 1.7.GHz Quad-Core CPU T.7.GHz Quad-Core CPU Main Memory Interface 3GB / 3ch 4dbit LPDDR1.6GHz 3GB / 3ch 4dbit LPDDR1.6GHz Service Graphics 2D & 3D Graphic Accelerator Data Format : 32bpp Dutput resolution : 33440x2160p Vulted Decoder Vulted Decoder Video Decoder Video Decoder Multimedia - WFEG.712/4, H.233, H.234/AVC - VFEG.712/4, H.233, H.234/AVC - VFEG.712/4, H.233, H.234/AVC Video Decoder Audio DSP(Decoder) - WFEG.712/4, H.233, H.234/AVC - VFEG.712/4, H.233, H.234/AVC - VFEG.712/4, H.233, H.234/AVC Video Decoder - VFEG.712/4, H.233, H.234/AVC - VFEG.712/4	Operation			10~80%	10~80%	
Special S/W Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Feature Processor 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 L1 Instruction Cache: 48KB / L1 Data Cache: 32KB Clock Speed 1.7GHz Quad-Core CPU 1.7GHz Quad-Core CPU Main Memory Interface 3GB / 3ch 4dbit LPDDR4 1.6GHz 3GB / 3ch 4dbit LPDDR4 1.6GHz Service Graphics 2D & 3D Graphic Accelerator Data Format: 32Dpp Output resolution: 3840x2160p 2D & 3D Graphic Accelerator Data Format: 32Dpp Output resolution: 3840x2160p Mutimedia - WEG 172/4, H2G3, H2G4/AVC - WEG 172/4, H2G3, H2G4/AVC - WEG 172/4, H2G3, H2G4/AVC - WEG 172/4, H2G3, H2G4/AVC - WHEG 172/4, H2G3, H		Key		QLED Signage Display,Slim & Light Signage with Built-in MagicInfo S5, SSSP 5.0		
Special S/W Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Feature Processor 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 L1 Instruction Cache: 48KB / L1 Data Cache: 32KB Clock Speed 1.7GHz Quad-Core CPU 1.7GHz Quad-Core CPU Main Memory Interface 3GB / 3ch 4dbit LPDDR4 1.6GHz 3GB / 3ch 4dbit LPDDR4 1.6GHz Service Graphics 2D & 3D Graphic Accelerator Data Format: 32Dpp Output resolution: 3840x2160p 2D & 3D Graphic Accelerator Data Format: 32Dpp Output resolution: 3840x2160p Mutimedia - WEG 172/4, H2G3, H2G4/AVC - WEG 172/4, H2G3, H2G4/AVC - WEG 172/4, H2G3, H2G4/AVC - WEG 172/4, H2G3, H2G4/AVC - WHEG 172/4, H2G3, H			H/W	Temperature Sensor Pivot Display. Clock Battery(168hrs Clock Keening). Built in Speaker(10W 2ch). Wi-Fi/BT		
Feature Processor Coretex A7217GHz Quad-Core CPU Coretex A7217GHz Quad-Core CPU In -Chip Cache Memory L1 Instruction Cache : 48KB / L1 Data Cache : 32KB L1 Instruction Cache : 48KB / L1 Data Cache : 32KB Clock Speed 1.7GHz Quad-Core CPU 1.7GHz Quad-Core CPU Main Memory Interface 3GB / 3ch 64bit LPDDR4 1.6GHz 3GB / 3ch 64bit LPDDR4 1.6GHz Graphics Clock Speed 2D & 3D Graphic Accelerator Data Format : 32bpp Output resolution : 3840x2160p 2D & 3D agaic Accelerator Data Format : 32bpp Output resolution : 3840x2160p Kuitimedia Video Decoder - MPEG 1/2/4, H263, H264/AVC - VPB, VPP, HEVC, JPEG Audio DSP(Decoder) - MPEG 1/2/4, H263, H264/AVC - VPB, VPP, HEVC, JPEG Audio DSP(Decoder) Nuttimedia 0 Ports USB 2.0 USB 2.0 Operating System Tizen 3.0 (VDLinux) Tizen 3.0 (VDLinux) EMC Gospo-1 60950-1		Special				
Feature On-Chip Cache Memory L1 Instruction Cache: 48KB / L1 Data Cache: 32KB L1 Instruction Cache: 48KB / L1 Data Cache: 32KB Feature On-Chip Cache Memory 1.7GHz Quad-Core CPU 1.7GHz Quad-Core CPU Main Memory Interface 3GB / 3ch 64bit LPDDR41.6GHz 3GB / 3ch 64bit LPDDR41.6GHz Service Graphics 2D & 3D Graphic Accelerator Data Format: 32bpp Output resolution: 3840x2160p 2D & 3D Graphic Accelerator Data Format: 32bpp Output resolution: 3840x2160p Korage (FDM) 8GB (3.88GB Occupied by 0/S, 4.12GB Available) 8GB (3.88GB Occupied by 0/S, 4.12GB Available) Multimedia - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - VIGe Decoder - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC - MPEG 172/4, H263, H264/AVC <td< td=""><td></td><td rowspan="11">Service</td><td></td><td>• • •</td><td></td></td<>		Service		• • •		
Feature Clock Speed 1.7GHz Quad-Core CPU 1.7GHz Quad-Core CPU Main Memory Interface 3GB / 3ch 64bit LPDDR4 1.6GHz 3GB / 3ch 64bit LPDDR4 1.6GHz Service Graphics Data Format : 32bpp Output resolution : 3840x2160p Data Format : 32bpp Output resolution : 3840x2160p Service Korage (FDM) 8GB (3.88GB Occupied by 0/S, 4.12GB Available) 8GB (3.88GB Occupied by 0/S, 4.12GB Available) Multimedia - MPEG 1/2/4, H.263, H.264/AVC - UHD H.264/AVC, VC-1, AVS/AVS+, MVC - VPB, VPD, HEVC, JPEG Audio DSP(Decoder) - MPEG, AC3, AC4, DD, MP3 and etc - MPEG 1/2/4, H.263, H.264/AVC - VPB, VPD, HEVC, JPEG Audio DSP(Decoder) - MPEG, AC3, AC4, DD, MP3 and etc IO Ports USB 2.0 USB 2.0 USB 2.0 Operating System Tizen 3.0 (VDLinux) Tizen 3.0 (VDLinux) EMC EMC Gorsbo-1 Gorsbo-1			Processor			
Feature Main Memory Interface 3GB / 3ch 64bit LPDDR41.6GHz 3GB / 3ch 64bit LPDDR41.6GHz Service Graphics 2D & 3D Graphic Accelerator Data Format : 32bpp Output resolution : 3840x2160p 2D & 3D Graphic Accelerator Data Format : 32bpp Output resolution : 3840x2160p Storage (FDM) 8GB (3.88GB Occupied by 0/S, 4.12GB Available) 8GB (3.88GB Occupied by 0/S, 4.12GB Available) Multimedia - MPEG 1/2/4, H.263, H.264/AVC - VPB, VPP, HEVC, JPEG Audio DSP(Decoder) - MPEG, AC3, AC4, DD, MP3 and etc - MPEG 1/2/4, H.263, H.264/AVC - VPB, VPP, HEVC, JPEG Audio DSP(Decoder) - MPEG, AC3, AC4, DD, MP3 and etc IO Ports 0 Forts USB 2.0 USB 2.0 Operating System Tizen 3.0 (VDLinux) Tizen 3.0 (VDLinux) Safety - MEG 60950-1 60950-1 EMC EMC GasA Class A Class A			On-Chip Cache Memory			
Feature Graphics 2D & 3D Graphic Accelerator Data Format : 32bpp Output resolution : 38402160p 2D & 3D Graphic Accelerator Data Format : 32bpp Output resolution : 38402160p Service Graphics 8GB (3.88GB Occupied by 0/5, 4.12GB Available) 86B (3.88GB Occupied by 0/5, 4.12GB Available) 86B (3.88GB Occupied by 0/5, 4.12GB Available) Multimedia Video Decoder - MPEG /12/4, H.263, H.264/AVC - VPB, VPB, LVC, JPEG Audio DSP(Decoder) - MPEG, AC3, AC4, DD, MP3 and etc - WPEG /12/4, H.263, H.264/AVC - UHD H.264/AVC, UC -1, AVS/AVS+, MVC - VPB, VPB, LVC, JPEG Audio DSP(Decoder) - MPEG, AC3, AC4, DD, MP3 and etc - WPEG /12/4, H.263, H.264/AVC - VPB, VPB, VPC, JPEG - WPB, VPB, LVC, JPEG - MPEG, AC3, AC4, DD, MP3 and etc IO Ports USB 2.0 USB 2.0 - WPEG, AC3, AC4, DD, MP3 and etc Safety Gersting System Tizen 3.0 (VDLinux) - MEG 950-1 Certification EMC Glass A Glass A			Clock Speed	1.7GHz Quad-Core CPU	1.7GHz Quad-Core CPU	
Certification Graphics Data Format : 32bpp Output resolution : 3840x2160p Data Format : 32bpp Output resolution : 3840x2160p Service Storage (FDM) 8GB (3.88G Occupied by 0/S, 4.12GB Available) 8GB (3.88G Occupied by 0/S, 4.12GB Available) Video Decoder - MPEG 1/2/4, H.263, H.264/AVC Video Decoder - MPEG 1/2/4, H.263, H.264/AVC Video Decoder - MPEG 1/2/4, H.263, H.264/AVC Ver, PB, VPD, VPC, VPE, VPD, VPD, VPC, VPE, VPD, VPD, VPD, VPC, VPE, VPD, VPC, VPE, VPD, VPD, VPC, VPE, VPD, VPC, VPE, VPD, VPD, VPC, VPE, VPD, VPD, VPD, VPD, VPD, VPD, VPD, VPD	Feature		Main Memory Interface		3GB / 3ch 64bit LPDDR4 1.6GHz	
Service Storage (FDM) 8GB (3.88GB 0ccupied by 0/S, 4.12GB Available) 8GB (3.88GB 0ccupied by 0/S, 4.12GB Available) Video Decoder - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC Multimedia - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - VPB, VP9, HEVC, JPEG - WPB, VP9, HEVC, JPEG - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - VPB, VP9, HEVC, JPEG - WPB, VP9, HEVC, JPEG - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - VPB, VP9, HEVC, JPEG - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - VPB, VP9, HEVC, JPEG - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - VPB, VP9, HEVC, JPEG - WPEG 1/2/4, H263, H264/AVC - VPB, VP9, HEVC, JPEG - WPB, VP9, HEVC, JPEG - WPEG 1/2/4, H263, H264/AVC - WEG 1/2/4, H263, H264/AV			Graphics	Data Format : 32bpp	Data Format : 32bpp	
Video Decoder Video Decoder - Wideo Decoder - Wideo Decoder - WPEG 1/2/4, H263, H264/AVC - HPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPE, VPP, VPV, JPEG - WPEG 1/2/4, H263, H264/AVC - WPEG, AC3, AC4, DD, MP3 and etc - WPEG AC3, AC4, DD, MP3 and etc - MPEG, AC3, AC4, DD, MP3 and etc - MPEG, AC3, AC4, DD, MP3 and etc - MPEG, AC3, AC4, DD, MP3 and etc - MPEG AC3, AC4, DD, MP3 and etc - MPEG, AC3, AC4, DD, MP3 and etc - MPEG AC3, AC4, DD, MP3 and etc - Safety - M60950-1 Certification EMC - EMC - Class A			Storage (FDM)		8GB (3.88GB Occupied by O/S, 4.12GB Available)	
Image: Problem in the second			Storage (1 S1 I)			
IO Ports USB 2.0 USB 2.0 operating System Tizen 3.0 (VDLinux) Tizen 3.0 (VDLinux) Safety 60950-1 60950-1 EMC Class A Class A			Multimedia	- MPEG1/2/4, H.263, H.264/AVC - UHD H.264/AVC, VC-1, AVS/AVS+, MVC - VP8, VP9, HEVC, JPEG Audio DSP(Decoder)	- MPEG 1/2/4, H.263, H.264/AVC - UHD H.264/AVC, VC-1, AVS/AVS+, MVC - VP8, VP9, HEVC, JPEG Audio DSP(Decoder)	
Operating System Tizen 3.0 (VDLinux) Tizen 3.0 (VDLinux) Safety 60950-1 60950-1 Certification EMC Class A						
Safety 60950-1 60950-1 Certification EMC Class A Class A			IU Ports	USB 2.0	USB 2.0	
Certification EMC Class A Class A Class A		Operating System		Tizen 3.0 (VDLinux)	Tizen 3.0 (VDLinux)	
		Safety		60950-1	60950-1	
	Certification	EMC		Class A	Class A	
Elivironment ENERGY STAR 7.0 (TBD) ENERGY STAR 7.0 (TBD)						
Included Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Accessories	Included		Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries		
Stand STN-L4655E STN-L4655E			Stand	STN-L4655E	STN-L4655E	
		Optional				
Optional						
Specialty CLM450D CLM450D CLM450D			Specialty	CLM450D	CLM450D	
Media Player N/A N/A			Media Player	N/A	N/A	

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