

# Samsung OHD Series SMART Signage

All-inclusive outdoor signage solution  
for brilliant business messaging



## Highlights

- Engage viewers with excellent visibility through 3,000 nit (46") High Brightness, Reflection Cancelling Protection Glass, 5,000:1 contrast ratio, Auto-Brightness Sensor and Polarized Sunglass Support.
- Rely on extra durability for 24/7 operation in any environment from -30°C to 50°C with IP56 Ingress Protection and innovative Steady Cooling System.
- Easily connect and manage the displays and content with HDBaseT connection, Samsung SMART Signage Platform (SSSP) and Samsung MagicInfo® Solution.
- Simplify outdoor signage enclosures with a thin and complete outdoor signage solution that requires no additional parts.
- Reduce Total Cost of Ownership (TCO) with efficient installation, operation and management supported by reliable Samsung service.

## Bring outdoor messaging to life with a streamlined signage solution ready for a simple enclosure

Digital signage offers an effective way to communicate important information. However, operating digital signage outside involves more than simple relocation; it is a technical reengineering. Many factors, including visibility and durability under heavy usage and in extreme environments, system and content manageability, and operating costs must be considered.

Samsung OHD Series SMART Signage delivers an all-inclusive outdoor signage solution that is completely equipped for virtually any environment. OHD Series displays integrate every essential component and all the technology required for outdoor signage in a thin display. So, businesses can reach customers without the typical outdoor display mechanical design, installation and management issues.

Built for durability and flexibility, OHD Series displays can withstand extreme temperatures from -30°C to 50°C. The displays include slim and innovative temperature regulation systems for 24/7 operation in outdoor environments. And with 3,000 nit(46") brightness, a 5,000:1 contrast ratio, and anti-reflection glass, businesses can be sure that messages are seen vibrantly almost anytime or anywhere.

# Deliver vivid and brilliant viewing reliably, even in extreme conditions

## Captivate audiences with excellent visibility

OHD Series displays mesmerize audiences with high brightness that outshines conventional outdoor displays. The displays feature innovative Reflection Cancelling Technology to reduce reflection, an extremely high contrast ratio for vivid images, Auto Brightness Sensor to optimize brightness and Polarized Sunglass Support to optimally convey messaging to virtually any viewer.

OHD Series display viewers experience superior messaging clarity delivered with high 2,500 nit(55") and 3,000 nit(46") brightness that exceeds the brightness level of common outdoor displays that are typically found within the market.

Reflection cancelling technology is pinnacle of optical science that reduces reflection from a typical 12.8% down to approximately 0.5%. OHD Series patent pending Reflection Cancelling Protection Glass in front of the displays' LCD panels removes the protection glass reflection, making the displayed images richer and clearer. A front nano coating layer on the 5 mm protection glass exterior cuts down surface reflection with anti-infrared material that reduces solar radiation. A rear film layer also reduces reflection. When high brightness with lower reflection is combined with high contrast ratio, the result is greater content visibility.

OHD Series displays feature 5,000:1 high contrast ratio that is essential for delivering every detail of outdoor signage content with true and deep blacks. Under high luminance, high contrast ratio combined with high brightness enables the displays to show content with greater vibrancy and sharpness.



Figure 1. High brightness and contrast ratio suited for outdoor environment

The displays' Auto Brightness Sensor automatically adjusts the brightness between around 200 nit to typical brightness to optimally suit the surrounding lighting conditions.

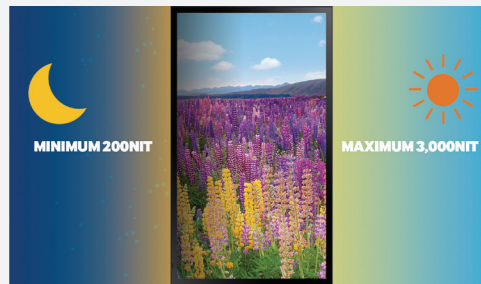


Figure 2. Auto Brightness Sensor adjusts the brightness between 200 nit to 3,000 nit

Because light emitted from an LCD display is polarized, a viewer wearing polarized sunglasses perceives that the display is turned off in either portrait or landscape mode. OHD Series displays feature circular polarizing technology that eliminates display blindness caused by polarized sunglasses.

In addition, OHD Series SMART Signage's image quality performance is substantiated by TUV picture quality master certification with validation of Outdoor Monitor High Visibility and Performance.



Figure 3. TUV certification for visibility

## Operate reliably in virtually any environment

### High ingress defense level IP56

Outdoor signage is directly exposed to dust, water, temperature changes and many other environmental variables that can damage the panels and impede operation. OHD Series displays ensure a higher level of ingress defense than most conventional outdoor displays with IP56 level protection that extends throughout the waterproof design, covering the fan, drain hole, plug and power outlets.

# Deliver vivid and brilliant viewing reliably, even in extreme conditions



Figure 4. IP56 Ingression Protection

### High endurance against external impact

Additional display protection is provided through the 5 mm (0.19 in.) tempered Reflection Cancelling Protection Glass that can resist the free dropping of a 0.54 kg (1.19 lb.) metal ball from up to 2.5 meters (8.2 ft.). 2.5meters are Samsung's higher standard of protection glass than industry standard 1.5meters. In addition, a gap between the Reflection Cancelling Protection Glass and the LCD panel prevents LCD breakage when the protection glass is broken (unlike optically bonded panels, which are more easily broken).

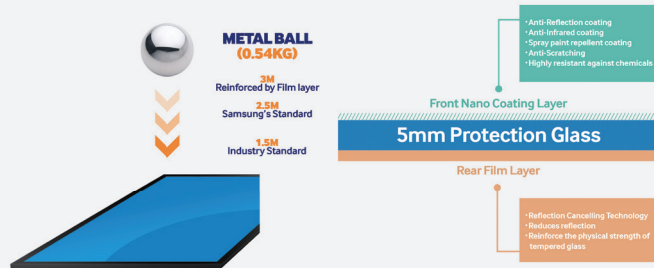


Figure 5. Reflection Cancelling Protection Glass. Protection glass resists high impact on the surface and other attempt to injure.

### High endurance against radiation heat

Outdoor signage is exposed directly or indirectly to sunlight, therefore, it must be mechanically designed to endure heat. OHD Series displays feature a Tni 110°C (230°F) panel that is designed to protect it from blackening defects that can occur when the display's surface temperature rises above its endurance level. This protection far exceeds the 75°C or 85°C (158°F or 176° F) endurance of conventional digital signage for high durability and reliability even under strong sunshine.

### Wide range of operation temperature

A patent pending Steady Cooling System and heating system ensure stable usage and fast display startup with advanced thermo control. The systems eliminate the need for additional air conditioning or heating equipment, and offer a wide operation temperature range of: -30°C (-22°F) to 50°C (122°F). The advanced Steady Cooling System is a key technology that enables the OHD Series display's slim form factor by combining highly efficient cooling with thin thermodynamic innovation. The system revolutionizes outdoor signage design by eliminating the need for additional air conditioning systems and thick enclosures to accommodate the full display package.



Figure 6. All-inclusive architecture enables the thin enclosure

### 24/7 durability

Outdoor signage communication with the general public requires the consistent and credible performance provided by the OHD Series 24/7 operation and robust durability. The ability to operate 24/7 also helps reduce TCO and increase ROI for the customer.



Figure 7. Strong 24/7 durability for seamless business communication

## Deliver vivid and brilliant viewing reliably, even in extreme conditions

### Experience easy connection and management

OHD Series displays deliver simplified, straightforward operation and connectivity with an HDBaseT connection, 2nd Generation SSSP and a platform on which content provider partners can freely develop web-based services..

HDBaseT is a connectivity standard for the distribution of uncompressed HD multimedia content. With HDBaseT, video, audio, Ethernet and control signals are transmitted through a single LAN cable for up to a 100-meter distance. Businesses can leverage HDBaseT to manage outdoor signage remotely from an office, providing a simplified connection at a lower cost.

2nd Generation SSSP features a media player that is embedded inside the display and integrates a capable computer into the display as a System-on-Chip (SoC). This integrated hardware and software solution streamlines digital signage configuration and management by eliminating the need for an additional PC unit.

MagicInfo<sup>®</sup> is an end-to-end management solution for digital signage networks. By integrating MagicInfo<sup>®</sup> S Player embedded in the display with MagicInfo Server<sup>®</sup> businesses can centrally manage and control multiple digital signage displays over the Internet.

SSSP provides a platform for which content provider partners can develop web-based services freely and easily without using an additional PC or media player. Such web-based services can streamline the content management of large-scale outdoor signage networks.

### Simplify outdoor signage with an all-encompassing array of pre-assembled features

Outdoor signage need not be complex. OHD Series is conveniently and easily installed, designed and operated with a thin and complete all-in-one solution. The package includes ingress protection, anti-reflection technology, vandalism protection and a highly efficient cooling system, all of which are assembled mechanically and perfectly. The simple OHD Series display enclosure requires no additional parts, so it is completely ready for virtually any enclosure.

At 90.3 mm (including its protection glass), the OHD Series display depth is the slimmest on the market. This slim depth provides a sleeker enclosure design and enables many usage applications. The all-inclusive display design encompasses a wide range of functionality that was previously handled by an enclosure. For example, the OHD Series applies Reflection Cancelling Technology that eliminates the need for additional protection glass and the Steady Cooling System eliminates the need for additional air-conditioning equipment in the enclosure. In addition, the OHD Series IP56 protection chassis and mechanical parts eliminate the design requirement of additional ingress protection. With a display solution that encompasses all the typical outdoor design requirements, business can simplify and shorten the outdoor signage decision making and deployment processes.



Figure 8. Remote management of outdoor signage with simple, low-cost connection through advanced HDBaseT



## Streamline outdoor signage for convenience and cost-savings

### Reduce TCO

Up to 70% of digital signage costs including power, installation, content, media players and software are hidden expenses. OHD Series displays enable lower TCO by providing control of these hidden installation, operation and management costs.

Simplified construction of outdoor signage and enclosures enhances its serviceability. The use of minimal outdoor signage components facilitates easy issue detection and troubleshooting. Plus, the all-inclusive OHD Series signage design as a single display with compatible parts optimizes performance and reduces failures from interactions between components.

Samsung's experienced and professional business service supports customers for reduced downtime and longer equipment usage. A 3-year commercial usage warranty minimizes the customer's expenditures for unexpected display failure and recovery.



# SAMSUNG SMART SIGNAGE OUTDOOR DISPLAYS OHF SERIES

A powerful all-inclusive signage solution for outdoor business messaging

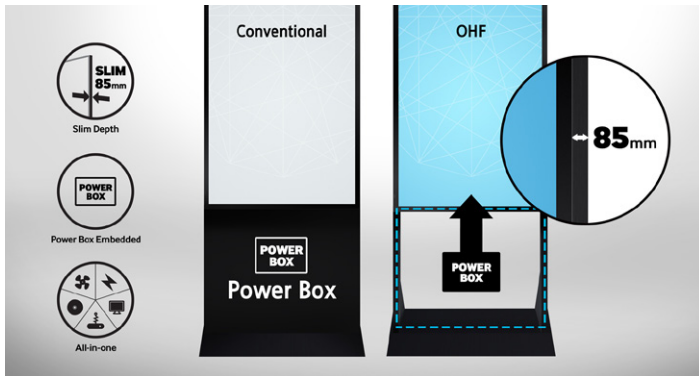
Samsung's OHF Series SMART Signage delivers an all-inclusive engagement solution that is completely equipped for virtually any outdoor environment. Featuring a slim depth (85 mm.) design, along with the added convenience of an embedded power box, the OHF Series displays ensure durability, flexibility and 24/7 performance even in extreme temperatures. And with 2,500 nit brightness, a 5,000:1 contrast ratio and anti-reflection glass, businesses can ensure their messages are showcased almost anytime or anywhere.

## HIGHLIGHTS

- Find convenience in an all-in-one solution with an embedded power box and network hub
- Clearly showcase featured content through an ultra-slim depth (85 mm.) design
- Validate overall endurance with IK10 certification
- Ensure 24/7, IP56-certified durability in extreme weather environments
- Leverage a filter-less self-cooling system for easy maintenance and reduced TCO
- Deliver excellent visibility in direct sunlight through high 2,500nit brightness and anti-reflection glass
- Achieve convenient content management through an advanced, TIZEN-powered platform



## KEY FEATURES



### AN ALL-ENCOMPASSING ARRAY OF PRE-ASSEMBLED, OUTDOOR-READY FEATURES

The OHF Series displays feature a thinly-designed, all-in-one composition which enables convenient and easy installation. A thorough package equips the displays for long-term performance, and includes ingress protection, anti-reflection technology, vandalism defense and a highly-efficient cooling system, among others. In addition, an integrated power box condenses operational components and accommodates an ultra-slim (85 mm.) frame. Embedded network hub and Wi-Fi functionality further reduce TCO by eliminating the need for a router when linking products, and allow smooth connectivity should the display be exposed to heat or water.



### ROBUST IK10 ENDURANCE

Tempered, IK10-certified\* Magic Glass (5 mm.) provides the OHF Series displays with durable advanced protection against a range of external and environmental factors. Should the protective glass break, a strategically-placed gap between the Magic Glass and LCD panel prevents significant damage and enables efficient repair.

\*The IK European strength test rating uses a 0-10 scale (where 10 indicates the highest possible protection) to measure the degree of resistance against external impact.



### EXCELLENT AND CAPTIVATING VISIBILITY

#### • High Visibility

The OHF Series displays feature innovative Magic Glass, TUV-certified image quality and an Auto Brightness sensor to improve picture quality and optimize message delivery for any viewer. When combined, these features produce high 2,500nit brightness and a 5,000:1 contrast ratio that amplify any type of content\*. These powerful displays also include circular polarizing technology that eliminates display blindness caused by polarized sunglasses.

\*The 2,500nit brightness and 5,000:1 contrast ratio settings are available for all OHF Series models larger than 24 in.

#### • Reflection Prevention

Beyond its basic picture enhancement functionality, the OHF Series' Magic Glass minimizes reflection and enables rich, clear image presentation even when exposed to direct sunlight. Along with their high brightness and contrast ratio, the OHF Series displays' reflectivity ensures continuous visibility and content integrity in any outdoor setting.

## KEY FEATURES



### ENERGY-EFFICIENT PERFORMANCE

Through advanced thermal control functionality and a filter-free design, the OHF Series displays operate at reduced energy consumption. An integrated heat exchanger modifies signage resources depending on the environment, and ultimately cuts costs for operators.



### OPERATE RELIABLY IN VIRTUALLY ANY ENVIRONMENT

Each OHF Series display undergoes rigorous IP56 ingress defense testing to ensure resistance to dust, heat, moisture and other environmental variables that can impede operations. This includes an integrated self-cooling system that keeps the OHF Series displays running in temperatures ranging from -30oC (-22oF) to 50oC (122oF). In turn, operators can feel confident in the displays' ability to perform 24/7, and without requiring expensive external cooling systems or security measures.



### VESA-COMPLIANT FOR SIMPLIFIED MOUNTING

To accommodate VESA regulations, users can add optional brackets\* to their OHF Series package. Beyond ensuring compliance, the brackets offer greater flexibility to mount displays in preferred locations without having to purchase specialized wall mounts.

\*Brackets are only available for the 46- and 55-inch OHF Series display models.



### ROBUST CONTENT CREATION AND MANAGEMENT

Samsung's MagicInfo Player S4 equips OHF Series users with a new graphic engine that boosts overall display performance while ensuring a seamless content transition. The platform also operates as an advanced content management solution that enables more convenient content creation, scheduling and deployment. MagicInfo Player S4 is robust enough to help large organizations monitor and manage multiple OHF Series displays through a single, centralized server.



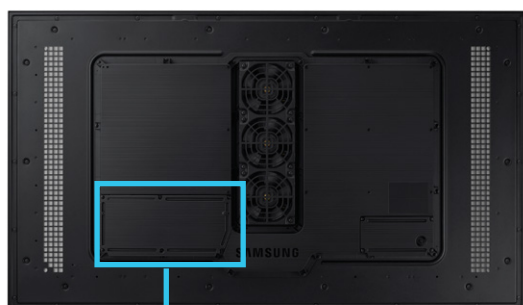


FRONT



BACK

CONNECTIVITIES



1. RS232C IN OUT
2. AUDIO OUT
3. USB
4. RJ45(LAN OUT)
5. HDBT(LAN IN)
6. HDMI IN1
7. HDMI IN2

MODEL			OH46F	OH55F	OH75F	OH85F
Panel	Diagonal Size	Class	46	55	75	85
		Measured	45.9" / 116.8cm	54.6" / 138.7cm	74.5" / 189.3cm	84.5" / 214cm
	Type		120Hz E-LED BLU	120Hz E-LED BLU	120Hz D-LED Local Dim. BLU	60Hz D-LED Local Dim. BLU
	Resolution		1920x1080 (16:9)	1920x1080 (16:9)	1920 x 1080 (16:9)	3840x2160 (16:9)
	Pixel Pitch(mm)		0.530 x 0.530	0.630 x 0.630	0.860 x 0.860	0.488 x 0.488
	Active Display Area(mm)		1018.08(H) x 572.67(V)	1209.60(H) x 680.40(V)	1650.24(H) x 928.26(V)	1872(H) x 1053(V)
	Brightness(Typ.)		2,500 cd/m2	2,500 cd/m2	2,500 cd/m2	2,500 cd/m2
	Contrast Ratio		5,000:1	5,000:1	5,000:1	3000:1
	Viewing Angle(H/V)		178/178	178/178	178/178	178/178
	Response Time(G-to-G)		6ms	6ms	6ms	8ms
	Display Colors		8 bit - 16.7M	8 bit - 16.7M	8 bit - 16.7M	10 bit - 1.07B
	Color Gamut		72%	72%	72%	72%
	Operation Hour		24/7	24/7	24/7	24/7
	Haze		0%	0%	0%	0%
Display	Dynamic C/R		100,000:1	100,000:1	100,000:1	100,000:1
	H-Scanning Frequency		108 ~ 139.5 kHz	108 ~ 139.5 kHz	108 ~ 139.5 kHz	30~135kHz (DP), 30~90kHz (HDMI)
	V-Scanning Frequency		96 ~ 123 Hz	96 ~ 123 Hz	96 ~ 123 Hz	30~75Hz (DP), 24~75Hz (HDMI)
	Maximum Pixel Frequency		297MHz	297MHz	297MHz	533.25MHz (DP), 297MHz (HDMI)
Sound	Speaker Type		N/A	N/A	N/A	N/A
Connectivity	INPUT	RGB	N/A	N/A	N/A	DP1.2 (2) @UHD 60Hz
		VIDEO	HDMI 1.4 (2), HDBaseT(LAN Common)	HDMI 1.4 (2), HDBaseT(LAN Common)	HDMI 1.4 (2), HDBaseT(LAN Common)	HDMI 1.4 (2) @UHD 30Hz, HDBaseT
		HDCP	HDCP 2.2	HDCP 2.2	HDCP 2.2	HDCP 1.4
		AUDIO	N/A	N/A	N/A	N/A
		USB	USB 2.0 (1)	USB 2.0 (1)	USB 2.0 (1)	USB 2.0 (1) (only for FW update)
	OUTPUT	RGB	N/A	N/A	N/A	N/A
		VIDEO	N/A	N/A	N/A	N/A
		AUDIO	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack
		USB	N/A	N/A	N/A	N/A
		Power Out	N/A	N/A	N/A	N/A
	External Control		RS232C (In/Out), RJ45(In/Out), HDBaseT	RS232C (In/Out), RJ45(In/Out), HDBaseT	RS232C (In), RJ45, HDBaseT	RS232C (In), RJ45, HDBaseT
	External Sensor		N/A	N/A	N/A	N/A
	Tuner		N/A	N/A	N/A	N/A
Power	Type		Internal	Internal	Internal	Internal
	Power Supply		AC100 - 240 V~ (+/- 10 %), 50/60 Hz	AC100 - 240 V~ (+/- 10 %), 50/60 Hz	AC100 - 240 V~ (+/- 10 %), 50/60 Hz	AC100 - 240 V (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	468	554	1,400	1,600
		Typical[W/h]	W/W(EU) 193 US/KOR/Etc. 440 ※ Etc. CHINA, TAIWAN, BRA, CIS	W/W(EU) 267 US/KOR/Etc. 510 ※ Etc. CHINA, TAIWAN, BRA, CIS	W/W(EU) 520 US/KOR/Etc. TBD ※ Etc. CHINA, TAIWAN, BRA, CIS	W/W(EU) 680 US/KOR/Etc. TBD ※ Etc. CHINA, TAIWAN, BRA, CIS
		BTU(Max)	1595.88	1889.14	4774	5,456
		Sleep mode	Less than 0.5W	Less than 0.5W	less than 0.5W	less than 0.5W
		Off mode	Less than 0.5W	Less than 0.5W	less than 0.5W	less than 0.5W

MODEL			OH46F	OH55F	OH75F	OH85F
Mechanical Spec	Dimension (mm)	Set	1069.0 x 623.6 x 85.0 mm	1260.6 x 731.4 x 85.0 mm	1774.8 x 1053.4 x 120 mm	2004 x 1185 x 120
		Package	1156 x 713 x 200 mm	1358 x 845 x 230 mm	1946 x 1252 x 495 mm	2175 x 1383 x 495
	Weight (kg)	Set	40.5 kg	52.6kg	142 kg	163kg
		Package	44.3 kg	58.1kg	188 kg	211kg
	Mounting Hole		995 x 500 (Basic) 1000 x 400 (VESA Bracket Option)	1186 x 560 (Basic) 1200 x 400 (VESA Bracket Option)	870 x 1118.4 (M8 x 8Hole)	1000 x 1118.4 (M8 x 8Hole)
	Protection Glass		Yes (5T Tempered Glass)	Yes (5T Tempered Glass)	Yes (5T Tempered Glass)	Yes (5T Tempered Glass)
	Stand Type		N/A	N/A	N/A	N/A
Bezel Width (mm)		24.9 / 24.9 / 24.9 / 24.9 mm	24.9 / 24.9 / 24.9 / 24.9 mm	59.8 / 59.8 / 59.8 / 59.8 mm	62 / 62 / 62 / 62 mm	
Operation	Operating Temperature		-30°C~ 50°C	-30°C~ 50°C	-30°C~ 50°C	-30°C~ 50°C
	Humidity		10~80%	10~80%	10~80%	10~80%
	IP Certificate		IP56	IP56	IP56	IP56
Key			Power-box Integrated, IP56 Certified,WiFi(Back side usage only), Built-in MagicInfo Player S4, SSSP 4.0	Power-box Integrated, IP56 Certified,WiFi(Back side usage only), Built-in MagicInfo Player S4, SSSP 4.0	"Heat Exchanger, IP56 Certified, Built-in MagicInfo Player S4, SSSP 4.0"	Slim High Brightness, IP56 Certified, Heat Exchanger
	Special		IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping), Kensington Lock	IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping), Kensington Lock	IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping), Kensington Lock	IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, FHD 4-PBP, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping)
Feature	Internal Player (Embedded H/W)	Processor	Cortex-A12 1.3GHz Quad Core CPU	Cortex-A12 1.3GHz Quad Core CPU	Cortex-A12 1.3GHz Quad Core CPU	
		On-Chip Cache Memory	L1 (I/D) : 32KB / 32KB L2 (Unified) : 1MB	L1 (I/D) : 32KB / 32KB L2 (Unified) : 1MB	L1 (I/D) : 32KB / 32KB L2 (Unified) : 1MB	
		Clock Speed	1.3GHz CPU Quad	1.3GHz CPU Quad	1.3GHz CPU Quad	
		Main Memory Interface	2.5GB 3 channel 96bit DDR3-933 (1866MHz)	2.5GB 3 channel 96bit DDR3-933 (1866MHz)	2.5GB 3 channel 96bit DDR3-933 (1866MHz)	
		Graphics	2D & 3D Graphics Engine - Up to 3840x2160p. 32bpp - Supports OpenGL ES	2D & 3D Graphics Engine - Up to 3840x2160p. 32bpp - Supports OpenGL ES	2D & 3D Graphics Engine - Up to 3840x2160p. 32bpp - Supports OpenGL ES	
		Storage (FDM)	8GB (3.75GB Occupied by O/S, 4.25GB Available, )	8GB (3.75GB Occupied by O/S, 4.25GB Available, )	8GB (3.75GB Occupied by O/S, 4.25GB Available, )	N/A
		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 DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	Video Decoder - MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC - VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	Video Decoder - MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC - VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	
		IO Ports	USB 2.0	USB 2.0	USB 2.0	
		Operating System	Tizen 2.4 (VDLinux)	Tizen 2.4 (VDLinux)	Tizen 2.4 (VDLinux)	



MODEL		OH46F	OH55F	OH75F	OH85F
Certification	Safety	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE
	EMC	FCC (USA) Part 15, Sub-part B Class A	FCC (USA) Part 15, Sub-part B Class A	FCC (USA) Part 15, Sub-part B Class A	FCC (USA) Part 15, Sub-part B Class A
		CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003	CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003	CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003	CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003
Environment	N/A	N/A	N/A	N/A	
Accessories	Included	Quick Setup Guide, Regulatory Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Regulatory Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Regulatory Guide, Warranty Card, Remote Controller, Batteries	Quick Setup Guide, Regulatory Guide, Warranty Card, Remote Controller, Batteries
	Optional	Media Player	N/A	N/A	N/A

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