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Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions. For the latest news, please visit the Samsung Newsroom at <http://news.samsung.com>.

## For more information

For more information about Samsung Interactive Display, SMART LED Signage, SMART Signage, and Business Monitor, visit [www.samsung.com/business](http://www.samsung.com/business) or [www.samsung.com/displaysolutions](http://www.samsung.com/displaysolutions)

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# Samsung Retail Display Solutions

Reinventing the shopping experience through state-of-the-art technology

SMART Signage | LED Signage | MagicINFO Solution

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## Improving the Modern Shopping Experience

The shopping experience has evolved through the years, becoming mostly online transactions as opposed to in-store shopping. Although buying online is convenient, the instant satisfaction of purchasing something in the store is missing, as well as the face-to-face interactions with store associates. To make the most of this customer experience, Samsung has created digital signage to further the buying experience by engaging customers visually and providing additional information to the customer. This new technology will enhance the customer's satisfaction during their in-store shopping journey, bringing the customers back to the store for future shopping.

### SMART Attraction

A store's external signage must be inviting, distinctive and interesting for shoppers to engage in a shopping experience at their store. Stores are assured of unique digital signage by utilizing Samsung's displays customization features. Digital signage also sets the tone of the store, allowing customers to understand the type of store they are entering before walking in.

### SMART Promotion

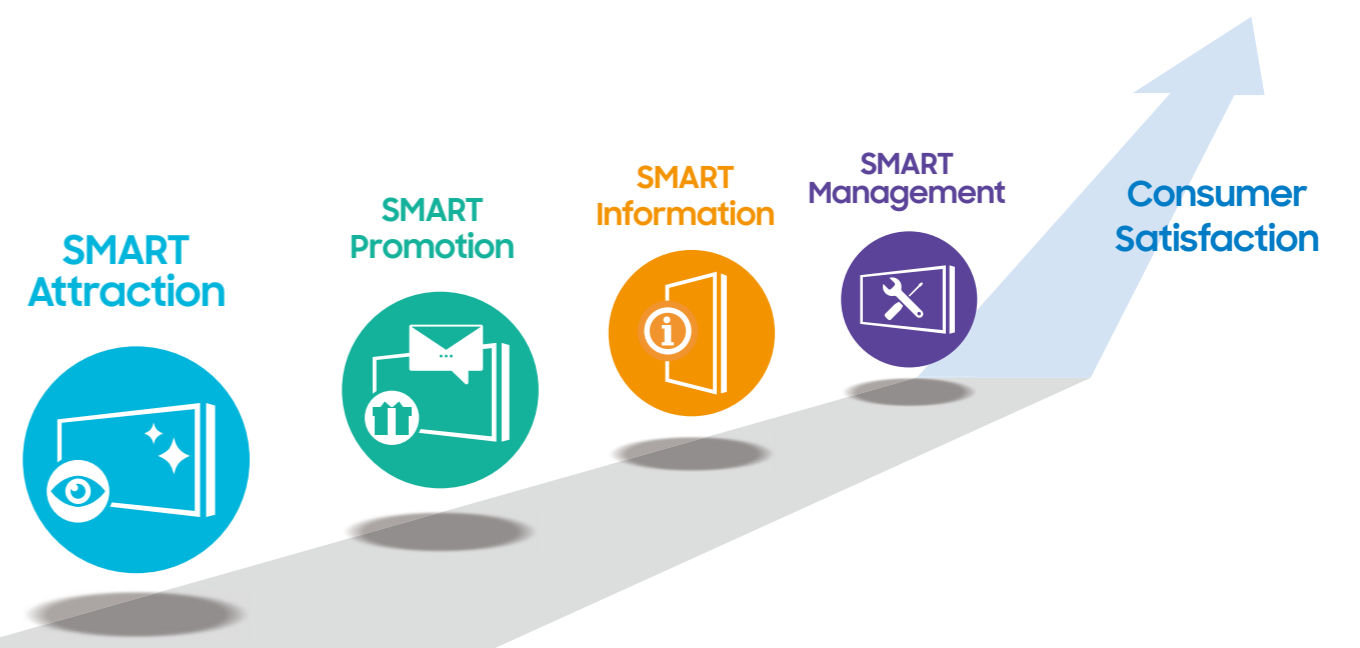
Retailers are continually trying to find ways to provide customers with information while they are in-store as well as offering them promotions they can use while shopping. Samsung's outdoor or semi-outdoor display and QLED signage have the ability to deliver a wide-range of information to customers during a shopping experience.

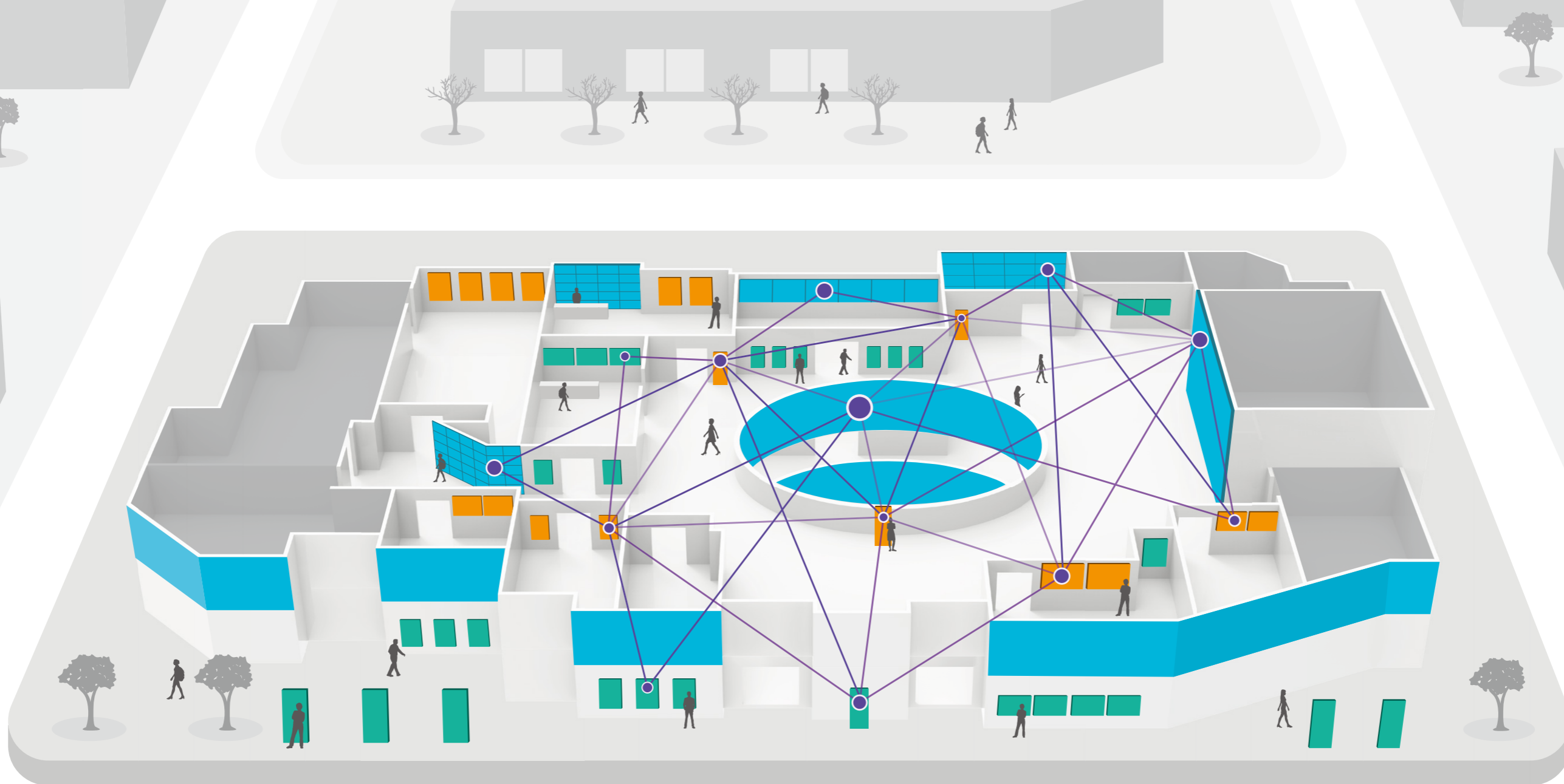
### SMART Information

Delivering product information to customers, increasing their knowledge of products and services while shopping, is something retailers struggle with often. Samsung's digital signage is a perfect way to increase shoppers' knowledge of products and provide helpful reviews to use during the buying process. Digital signage also helps shoppers navigate easily throughout the shopping mall.

### SMART Management

Creating and updating content across an entire network or a single display are tasks that retail owners oversee. Samsung's MagiCINFO Solution is a hardware content management platform that gives users the ability to connect to their signage at all times, regardless of their location. Users can also monitor displays remotely and adjust security settings based on the company's policy.





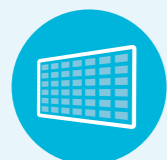
## What samsung offers

Samsung used their expertise to create a way for businesses to display their content in an easy to use, state-of-the-art manner. Looking at lifestyle displays, Samsung identified four ways for identifying these needs with their SMART technology. Recognizing that consumers want to be visually stimulated as well as educated during a shopping experience, Samsung created SMART Attraction, SMART Promotion and SMART Information displays. To meet business's needs, Samsung created or SMART Management technology that allows a user to connect to a display at all times.

### SMART Attraction



Outdoor LED Signage



Indoor LED Signage



Video Wall Display

### SMART Promotion



QLED Signage



Outdoor Signage



Semi-Outdoor Signage

### SMART Information



Interactive Display



UHD Signage



FHD Signage

### SMART Management



MagicINFO Solution



## SMART Attraction

Automatically captivating a shopper's attention with unforgettable messaging

## Indoor LED signage: IF series



### Showcase brilliant true-to-life imagery

Through in-depth color management, Samsung's IF series has the ability to preserve constant graduation of images, ensuring pictures are true-to-life. The display uses technology that is nearly twice as high as the standard LED, showcasing brand information and advertisement brilliantly. The IF series contains dynamic peaking technology that elevates images while removing interference from natural lighting.



HDR



Dynamic Peaking



Color Management



Fine-tune Uniformity

### A clean, hassle-free installation

A hook-based design allows IF Series to be mount screens in a single, smooth motion. This seamless installation eliminates gaps while keeping all front and rear components visible and accessible for quick-turn maintenance. The IF Series' compact, durable design also can withstand damage from natural events as strong as a Level 4 earthquake, while also meeting Americans with Disabilities Act (ADA) protrusion regulations.



Direct Mount Kit



Catwalk Space free



Advanced Design



Earthquake Durability

## Outdoor LED signage: XPE series



### Superior image quality regardless of conditions

Samsung's XPE series LED signage delivers excellent image quality that captures audience eyes even in challenging environments. Through two-step in-depth calibration, enhanced image processing and an industry-best contrast ratio, the displays deliver accurate and consistent color quality content with a high rate. The XPE series also is equipped to deter light interference, and produce bright images regardless of conditions.



High Refresh Rate



High Brightness



Superior Contrast



Two-step Calibration



### High reliability with proactive expert support

Each XPE series signage undergoes rigorous environmental testing to ensure uninterrupted performance. C3 Contamination and Ionograph testing deters circuit contamination. Complementary Climate and Humidity and Salt Fog Chamber exposure additionally ensures performance in variable weather conditions and wet and corrosive elements. Samsung makes the easy outdoor signage experience, providing round-the-clock service.



IP65



Corrosion Proof



Deformation Proof



End-to-end Project Management

## Video wall display: signage: UHF-E, VMR-U, UHF5 series



### Deeper visual impact with thin bezel

Samsung created the extreme narrow bezel video wall to be a robust display that is impactful but not intrusive. The wall has a 1.7mm bezel-to-bezel width that yields a seamless picture across multiple screens, and is configured to the user's needs without being bulky. Samsung's video wall is a non-glare display that distributes light through the screen, while preserving the vivid pictures and original information.



Narrow Bezel



Non Glare



Enhanced Uniformity



High Contrast Ratio

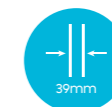


### Securely stabilized in any configuration

Building a visually appealing video wall that is customizable allows users freedom to design a distinctive display that is exclusive to them. The video wall attaches to a surface with wall mounts sized to dimensions of the video wall and hidden with no distractions. An easy to understand installation guide elevates steps during installation. User-friendly design and wall mounts allow for more precision video wall that performs.



Fine adjustment



Slim depth  
39mm



Easy Installation



24/7



## SMART Promotion

Delivering exciting content consumers will remember

## Outdoor signage: OHF / OHN / OHN-D series



### Unsurpassable visibility

Samsung's outdoor signage allows for exceptional, consistent content delivery with maximum 3,300 nit brightness\* and 24/7 performance for outdoor display at airport. With a built-in dimming sensor, the display automatically adjusts the brightness based on the external lighting environment, saving operating expenses and power consumption.

\* Brightness varies by model.



High Visibility



Dimming Sensor



24/7 Operation



Embedded Media Player



### Resistant to outdoor elements

Samsung outdoor signage is verified to perform in outdoor settings. IP56-rated protection\*\* ensures the signage will withstand physical impact as well as dust\*\*\*, humidity or other outdoor elements that could affect the display.

\*\* Additional glass needed for kit type.

\*\*\* Ingress of dust is not entirely prevented, but will not accumulate in sufficient quantities to interfere with the satisfactory operation of the equipment.



High Durability



Weather Proof



IP56 Certification



Magic Protection Glass

## QLED 8K signage: QPR-8K series



### Spectacular 33-million-pixel resolution

Samsung QLED 8K offers ground-breaking, super-high resolution, 4 times higher than 4K UHD content and 16 times higher than FHD. With more than 33 million pixels, QLED 8K provides exceptional depth and detail, resulting in a spectacularly immersive viewing experience in any business environment.



8K resolution



100% Color Volume



Peak Brightness



Quantum HDR



### 8K AI upscaling

QLED's Quantum processor 8K uses AI-powered machine learning to compare data from millions of images to reduce noise and refine details, delivering clearer picture, improved resolution and a memorable viewing experience in stunning detail, regardless of the original source quality or format.



AI upscaling



Quantum Processor 8K



8K-support SSSP



8K-support HDMI

## Semi-outdoor signage: OMN / OMN-D series



### Brilliant presentation for all

Unlike conventional digital signage, the OMN Series delivers content that stands out, regardless of outdoor elements. Featuring 4,000 nit brightness and a high contrast ratio up to 5,000:1\*, the OMN Series' display remains bright and clear, delivering an uncompromised picture that will capture the attention of potential customers - even in direct sunlight.

\* Contrast ratio varies by model.



High Brightness



High Contrast Ratio



Polarized Sunglass Support



Resistant to direct sunlight



### Modernize space with slim design

Through innovative design, the OMN Series delivers real-to-life pictures with a remarkably slim 54.5mm depth. Its compact size makes the display a natural extension of the store, as opposed to an addition that ties up valuable space. It also gives retailers greater flexibility in storefront design. Meanwhile, customers remain focused on rich, engaging content on a sleek, sophisticated display and won't be distracted by a bulky display.

\* "Conventional" refers to Samsung's OMD-W series.



Slim Design



No Cord Clutter



Energy Efficiency



Dual Display



## SMART Information

Customized, detailed content delivered clear and effectively

## UHD signage: QMR / QBR series



### Intelligent UHD upscaling

Samsung's cutting-edge intelligent UHD upscaling technology performs edge restoration and noise reduction to deliver perfect UHD picture quality for retailers, even with lower resolution content. This "future-proof" solution ensures best-in-class picture quality regardless of the original content resolution.

\*"Conventional" refers to the models that do not adopt UHD upscaling function.



Intelligent UHD engine



Noise Reduction



Edge Restoration



HDR+



### Slim and symmetrical design

The QMR / QBR series features an all-new symmetric design simplifying wall mounting and ensuring installation is seamless. The flat back and slim depth ensures a display that will stand the test of time.



Symmetric



Slim Depth



Narrow bezel



Long Life Cycle

## Interactive display : PMF-BC series



### Comfortable, multi-point capacitive touch communication

Through capacitive touch technology and a user-friendly design, Samsung's PMF-BC displays foster a comfortable, easy-to-navigate digital writing experience. The interactive displays can accommodate 10 unique touch points\* while maintaining the smooth, familiar feel of analog board or pen-and-paper writing.

\*The number of available touch points varies depending on configuration. Connected external PCs provide the PMF-BC display with 10 touch points, while the integrated operating system supports two additional touch points.



Seamless Touch



Multi Touch



Fast Response time



Intuitive UI



### High reliability & convenient management

Samsung's PMF-BC displays are resilient and require little maintenance, yet are dependable and deliver content effortlessly, allowing airport to inform travelers of terminal maps. This display withstood extensive testing to validate its durability against dust, dirt, vandalism and other factors. Airport staffs are able to control the display, no matter their location, using infrared receivers, for continuous content.



Dust Resistant



Sunlight Resistant

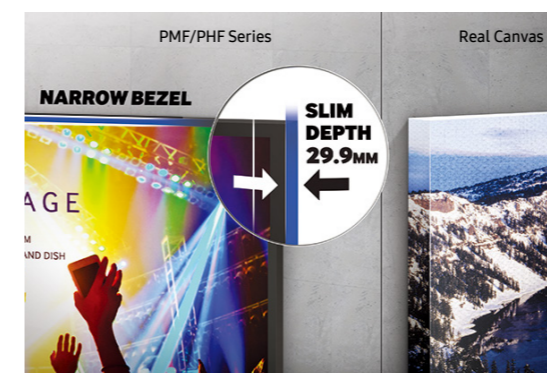


High Reliability



Central IR

## FHD signage: PHF-P series



### Clear content delivery with slim design

Samsung's TIZEN-powered FHD standalone displays achieve peak performance all while maintaining a stylish and captivating design. The PHF and PMH series leverage elevated brightness and refined image sharpness to ensure a consistently clear presentation even in settings with variable lighting. Uninterrupted, reliable content delivery is always assured regardless of surrounding conditions.



FHD



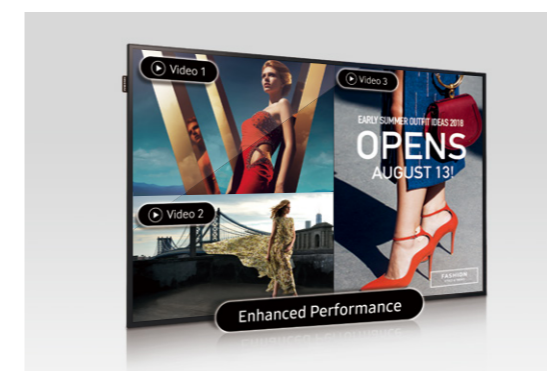
Slim Depth



Tizen



Embedded Solution



### Powerful performance and simple usability

Samsung's PHF and PMH series are IP5x validated\*, signifying their dust-resistant design and ability to withstand a range of environmental conditions. Equipped with a non-glare frontal panel, the PHF and PMH series discover heightened image visibility and information readability under light.

\*IP5x validation ensures satisfactory operation even with a certain level of dust inside the product. However, product operation is not guaranteed when exposed to particular types of dust such as metal dust.



IP5X



Anti Glare



Centralized Management



Central IR



MagicINFO Author



MagicINFO Server



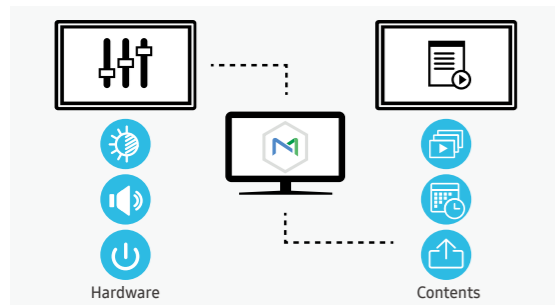
MagicINFO Player

## SMART Management

Consolidated management of content and devices

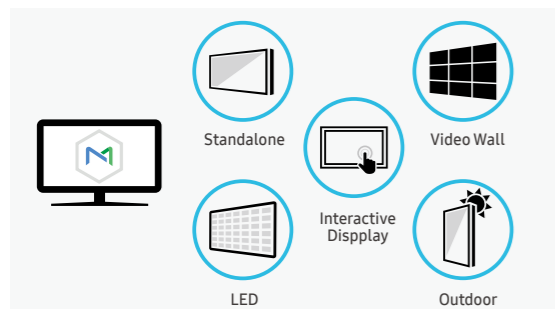
### MagicINFO solution

Three-step content & device management solution



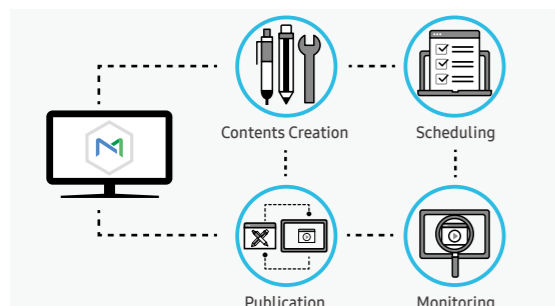
#### Single-point management

Samsung's MagicINFO is the industry leading platform to offer seamless remote hardware and software management, allowing teams to make changes to schedules and device settings, no matter the location or time of day. Regardless of the operational network, the MagicINFO solution is compatible with several display types, browsers and devices, ensuring the delivery of compelling, high-quality content regardless of the operational framework.



#### Versatile device compatibility

Samsung's MagicINFO solution controls and manages all types of displays such as indoor, outdoor signages and LED display. With its innovative technology, users are assured their content is managed with a state-of-the-art hardware solution.



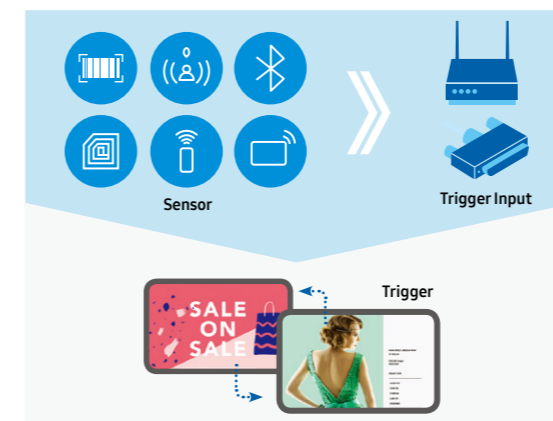
#### All-in-one message optimization

MagicINFO's technology allows businesses in any environment to conveniently create, schedule and deploy content across an entire digital signage network. Furthermore, MagicINFO lets users to remotely monitor and troubleshoot single displays or an entire network for device control.



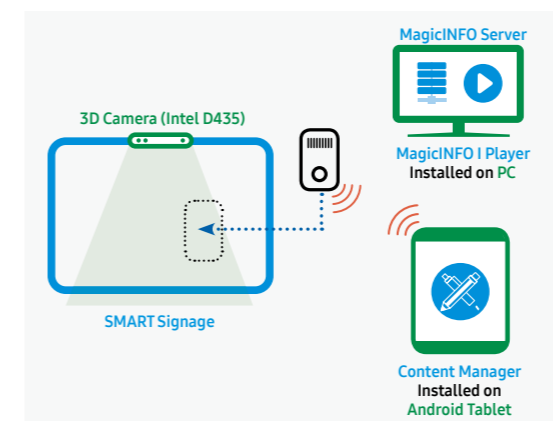
### Enhanced interactivity and extended engagement

Event trigger & spot solution



#### Tailored content delivery

Samsung's MagicINFO encourages audience interface with sensors that trigger customer centric content based on behaviors. This Event Trigger feature is compatible with IR, NFC, Barcode and RFID indicators and allows managers to program content that appears after a customer action, ranging from a personalized welcome message to sales or promotional content connected to a certain product or service. Through real-time engagement, MagicINFO helps businesses boost purchase intent and build stronger connections with new and recurring audiences.



#### Respond to consumers' motions in 3D

Samsung's MagicINFO platform features Spot solution technology that offers real-time messaging that meets customers' needs. A 3D camera captures customers' motions and activities in order to place relevant content to customers in a visible location. This is done via a content manager app and MagicINFO I Player. This Spot solution intellect enables businesses to better create and deliver messages that will inspire customer activity.

# Specification

## LED signage

|         | Project | Pixel Pitch    | Diode Type                                       | Brightness <sup>(1)</sup><br>(*) Dynamic Peaking applied | Contrast Ratio                    | Certification               | Cabinet Size  | Weight   | Service <sup>(2)</sup>            | IP Rating  |
|---------|---------|----------------|--|--|-----------------------------------|-----------------------------|---|--|-----------------------------------|--|
| Indoor  | IFJ     | P1.2           | Surface Mount Device                             | 1,200 nit  | 4,000:1                           | EMC Class B, Safety 60950-1 | 806.4x453.6x76.7mm (LxHxD, per cabinet)   | 11.8kg/cabinet   | Front and Parts Rear              | IP20   |
|         | IFJ-E   | P1.2           | Surface Mount Device                             | 1,200 nit  | 4,000:1                           | EMC Class B, Safety 60950-1 | 806.4x453.6x76.7mm (LxHxD, per cabinet)   | 11.8kg/cabinet   | Front and Parts Rear              | IP20   |
|         | IFH     | P1.5, 2.0, 2.5 | Surface Mount Device                             | 1,600 nit (P1.5)<br>2,400 nit (P2.0, 2.5)                | 5,000:1                           | EMC Class A, Safety 60950-1 | 480x540x65mm (LxHxD, per cabinet)   | 5.8kg/cabinet  | Front and Rear                    | IP20   |
|         | IFH-E   | P1.5, 2.5      | Surface Mount Device                             | 1,200 nit (P1.5)<br>2,000 nit (P2.5)                     | 5,000:1                           | EMC Class A, Safety 60950-1 | 480x540x65mm (LxHxD, per cabinet)   | 5.8kg/cabinet  | Front and Rear                    | IP20   |
|         | IFH-D   | P2.5, 4.0, 6.0 | Surface Mount Device                             | 2,400 nit (P2.5)<br>1,700 nit (P4.0)<br>1,800 nit (P6.0) | 5,000:1                           | EMC Class A, Safety 60950-1 | 480x720x65mm (LxHxD, per cabinet)   | 7.4kg/cabinet  | Front and Parts Rear              | IP20   |
| Outdoor | XPE     | P6, 8, 10      | Surface Mount Device                             | 7,500 nit  | 8,500:1 (P6)<br>10,000:1 (P8, 10) | EMC Class A, Safety 60950-1 | 203x203mm (LxH, per module) (P6)<br>264x297mm (LxH, per module) (P8)<br>330x165mm (LxH, per module) (P10)                     | 0.54kg/module (P6)<br>1kg/module (P8)<br>0.69kg/module (P10)     | Front Service and/or Rear Service | Silicone sealed (Module IP67, Cabinet IP65) (P6, P8)<br>Silicone sealed (IP65) (P10) |
|         | XAF     | P6, 8, 10, 16  | SMD2727 (P6)<br>SMD3535 (P8, 10)<br>DIP346 (P16) | 6,300 nit (P6, 8)<br>6,750 nit (P10)<br>7,700 nit (P16)  | 3,000:1                           | EMC Class A, Safety 60950-1 | 1152x864x142mm (LxH, per cabinet) (P6, 8)<br>960x960x142mm (LxH, per cabinet) (P10)<br>960x960x154mm (LxH, per cabinet) (P16) | 56kg/cabinet (P6, 8)<br>52kg/cabinet (P10)<br>55kg/cabinet (P16) | Rear                              | Front IP65<br>Rear IP45  |

<sup>(1)</sup> Peak Value according to IDMS (Information Display Measurement Standard)

<sup>(2)</sup> Front Service : Front Service to Power Supply and Main Board on a cabinet level / Parts Rear Service : Power Supply and Main Board can be accessed from the rear

## Outdoor signage

|              | Project              | Screen Size   | Resolution  | Brightness                            | Contrast Ratio               | Operation Hour | IP Rating      | Connectivity  | SoC    | S/W                 |
|--------------|----------------------|---------------|-------------|---------------------------------------|------------------------------|----------------|----------------|---|--------|---------------------|
| Outdoor      | OHN                  | 85"           | 3840 x 2160 | 3,300 nit                             | 3,000:1                      | 24/7           | IP56           | In: DP1.2, HDMI 2.0(2), HDCP 2.2, USB2.0<br>Out: Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45(In)  | SSSP 6 | MagicINFO Player S6 |
|              | OHN-D (Dual display) | 85"           | 3840 x 2160 | 3,300 nit                             | 3,000:1                      | 24/7           | IP56           | In: DP1.2(2), HDMI 2.0(4), HDCP 2.2, USB2.0(2)<br>Out: Stereo Mini Jack<br>Ext: RS232C(In), RJ45(In)  | SSSP 6 | MagicINFO Player S6 |
|              | OHF                  | 46", 55", 75" | 1920 x 1080 | 3,000 nit(46")<br>2,500 nit(55", 75") | 5,000:1                      | 24/7           | IP56           | In: HDMI 1.4(2), HDBaseT(LAN Common), HDCP 2.2, USB2.0<br>Out: Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45(In/Out), HDBaseT   | SSSP 4 | MagicINFO Player S4 |
| Semi-Outdoor | OMN                  | 46", 55"      | 1920 x 1080 | 4,000 nit                             | 5,000:1(46")<br>4,000:1(55") | 24/7           | IP5X Validated | In: DP1.2, HDMI 2.0(2), HDCP 2.2, USB2.0<br>Out: HDMI 2.0, Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45(In/Out)  | SSSP 6 | MagicINFO Player S6 |
|              | OMN-D (Dual Display) | 46", 55"      | 1920 x 1080 | 3,000 nit(front)<br>1,000 nit(back)   | 5,000:1(46")<br>4,000:1(55") | 24/7           | IP5X Validated | In: HDMI 2.0(2), HDCP 2.2, USB2.0(2)<br>Ext: RS232C(In), RJ45(In)   | SSSP 6 | MagicINFO Player S6 |
|              | OMD-W                | 75"           | 1920 x 1080 | 2,500 nit                             | 5,000:1                      | 24/7           | -              | In: Analog D-SUB, DVI-D, DP1.2, HDMI(2), Component(CVBS Common), HDCP 1.4, Stereo Mini Jack, USB 2.0<br>Out: DP1.2(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45 | SSSP 2 | MagicINFO Player S2 |
|              | OMH                  | 32"           | 1920 x 1080 | 1,000 nit                             | 3,000:1                      | 16/7           | -              | In: DP, HDMI(2), HDCP 2.2, USB(1)<br>Out: DP1.2(Daisy Chain), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45(In/Out), HDBaseT(In)  | SSSP 4 | MagicINFO Player S4 |

## Video wall display

| Project     | Screen Size              | Resolution  | Brightness | Contrast Ratio | Operation Hour | B-to-B (mm) | Bezel Width                 | Connectivity   |
|-------------|--------------------------|-------------|------------|----------------|----------------|-------------|-----------------------------|--|
| UHF-E/UHN-E | 46"(UHN-E)<br>55"(UHF-E) | 1920 x 1080 | 700 nit    | 4,000:1        | 24/7           | 1.7mm       | 1.15mm(U/L),<br>0.55mm(R/B) | In: Analog D-SUB, DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack<br>Out: DP1.2(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45 |
| UMH-E/UMN-E | 46"(UMN-E)<br>55"(UMH-E) | 1920 x 1080 | 500 nit    | 4,000:1        | 24/7           | 1.7mm       | 1.15mm(U/L),<br>0.55mm(R/B) | In: Analog D-SUB, DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack<br>Out: DP1.2(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45 |
| VMR-U       | 46"                      | 1920 x 1080 | 500 nit    | 3,500:1        | 24/7           | 3.5mm       | 2.3mm(U/L)<br>1.2mm(R/B)    | In: DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack<br>Out: HDMI, Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45                                 |
| UHF5        | 46"                      | 1920 x 1080 | 700 nit    | 4,000:1        | 24/7           | 5.5mm       | 3.4mm(U/L),<br>2.0mm(R/B)   | In: DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack<br>Out: DP1.2(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45(In)           |

## QLED 8K signage

| Project | Screen Size | Resolution  | Brightness | Operation Hour | Connectivity  | SoC    | S/W          |
|---------|-------------|-------------|------------|----------------|---|--------|--------------|
| QPR-8K  | 82"         | 7680 x 4320 | 500 nit    | 16/7           | In: HDMI 2.0(4, Including 8K 60p input support 1), USB 2.0(3)<br>Out: Optical(Digital Audio Out)<br>Ext: RS232C(In), RJ45 | SSSP 7 | MagicInfo S7 |

## UHD signage

| Project | Screen Size             | Resolution  | Brightness | Contrast Ratio   | Operation Hour | Panel Type | IP Rating      | Connectivity   | SoC    | S/W                 |
|---------|-------------------------|-------------|------------|--|----------------|------------|----------------|--|--------|---------------------|
| QHH     | 55", 65"                | 3840 x 2160 | 600 nit    | 6,000:1  | 16/7           | -          | -              | In: DP1.2, HDMI 2.0(2), HDCP 2.2, USB2.0(2)<br>Out: HDMI #1 ARC support<br>Ext: RS232C(In/Out), RJ45   | SSSP 5 | MagicINFO Player S5 |
| QMR     | 43", 49", 55", 65", 75" | 3840 x 2160 | 500 nit    | 6,000:1(75")<br>4,000:1<br>(43", 49", 55", 65")        | 24/7           | Non-Glare  | IP5X Validated | In: DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2)<br>Out: HDMI 2.0(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45 | SSSP 6 | MagicINFO Player S6 |
| QMN     | 85", 98"                | 3840 x 2160 | 500 nit    | 4,000:1(98")<br>3,000:1(85")                           | 24/7           | Non-Glare  | -              | In: DVI-D, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2)<br>Out: HDMI 2.0(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45 | SSSP 6 | MagicINFO Player S6 |
| QBR     | 43", 49", 55", 65", 75" | 3840 x 2160 | 350 nit    | 5,000:1(43")<br>4,700:1(49", 55")<br>4,000:1(65", 75") | 16/7           | -          | IP5X Validated | In: DVI-D, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2)<br>Out: Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45                            | SSSP 6 | MagicINFO Player S6 |
| QEN     | 82"                     | 3840 x 2160 | 300 nit    | 5,000:1  | 16/7           | -          | -              | In: DVI-D, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2)<br>Out: Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45                            | SSSP 6 | MagicINFO Player S6 |

## FHD signage

| Project | Screen Size   | Resolution  | Brightness | Contrast Ratio                    | Operation Hour | Panel Type | IP Rating      | Connectivity  | SoC        | S/W                   |
|---------|---------------|-------------|------------|-----------------------------------|----------------|------------|----------------|---|------------|-----------------------|
| PHF-P   | 43", 49", 55" | 1920 x 1080 | 700 nit    | 4,000:1(49", 55")<br>3,000:1(43") | 24/7           | Non-Glare  | IP5X Validated | In: DVI-I, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2)<br>Out: DP1.2(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45 | SSSP 4     | MagicINFO Player S4   |
| PMF     | 32"           | 1920 x 1080 | 400 nit    | 5,000:1                           | 16/7           | -          | IP5X Validated | In: DVI-I, DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB2.0(2)<br>Out: DP1.2(Loop-out), Stereo Mini Jack<br>Ext: RS232C(In/Out), RJ45 | SSSP 4     | MagicINFO Player S4   |
| DCE     | 32", 55"      | 1920 x 1080 | 350 nit    | 5,000:1                           | 16/7           | -          | -              | In: D-SUB, DVI-I, HDMI 1.4(2), HDCP 1.4, Stereo Mini Jack, USB2.0<br>Out: Stereo Mini Jack<br>Ext: RS232C(In), RJ45                         | Simple SoC | MagicINFO Player Lite |
| DCJ     | 43", 49"      | 1920 x 1080 | 300 nit    | 3,000:1                           | 16/7           | -          | -              | In: DVI-I, HDMI 1.4(2), HDCP 1.4, Stereo Mini Jack, USB2.0<br>Out: Stereo Mini Jack<br>Ext: RS232C(In), RJ45                                | Simple SoC | MagicINFO Player Lite |

## Interactive display

| Project | Screen Size | Resolution  | Brightness                                      | Contrast Ratio                               | Operation Hour              | Touch Type       | # of Touch    | Connectivity  | SoC    | S/W                   |
|---------|-------------|-------------|---|--|-----------------------------|------------------|---------------|---|--------|-----------------------|
| PMF-BC  | 32" 43" 55" | 1920 x 1080 | 300 nit (32")<br>350 nit (43")<br>400 nit (55") | 5,000:1(32")<br>3,000:1(43")<br>4,000:1(55") | 24/7(43", 55")<br>16/7(32") | Capacitive touch | Max. 10 Touch | In: DVI-I(D-SUB Common), DP1.2, HDMI 2.0(2), HDCP 2.2, Stereo Mini Jack, USB 2.0(2, 1 used for touch)<br>Out: DP1.2(Loop-out), Stereo Mini Jack, USB Type-B(2)<br>Ext: RS232C(In/Out), RJ45 | SSSP 4 | Built-in MagicInfo S4 |

## MagicINFO solution

|                   | Number of displays connecting to MagicINFO Server  |                              |                              |                                  |
|-------------------|--|------------------------------|------------------------------|----------------------------------|
|                   | <200   | <2000                        | <5000                        | >5000                            |
| OS                | Windows Server® 2008 / 2012 / 2016   |                              |                              |                                  |
| CPU               | Intel Xeon E3-1200 or better   | Intel Xeon E5-2400 or better | Intel Xeon E5-2600 or better | Intel Xeon E5-4600 or better     |
| RAM               | 4 GB or more   | 8 GB or more                 | 16 GB or more                | 32 GB or more                    |
| HDD               | At least 100 GB for basic setup (operating system and server application)<br>*Heavily dependent on the amount of content data to be stored on the server |                              |                              |                                  |
| Network Bandwidth | 64 kbps or better  |                              |                              |                                  |
| Number of Servers | 1  | 2                            | 3                            | 3 or more; dependent on scenario |