



**Large Format Displays**  
Solutions for Business  
2013 Product Range Brochure

**SAMSUNG**

## Simplify Your Message and Your Business.

Samsung's new line of large format displays (LFD) has entered the World's stage. With Samsung's experience and innovative technology of fully integrated LFD solutions we will deliver your message and bring your vision to life on the big screen. A combination of design and integration expertise, high-quality core professional display and audio systems technologies, and experienced professionals make it all happen.

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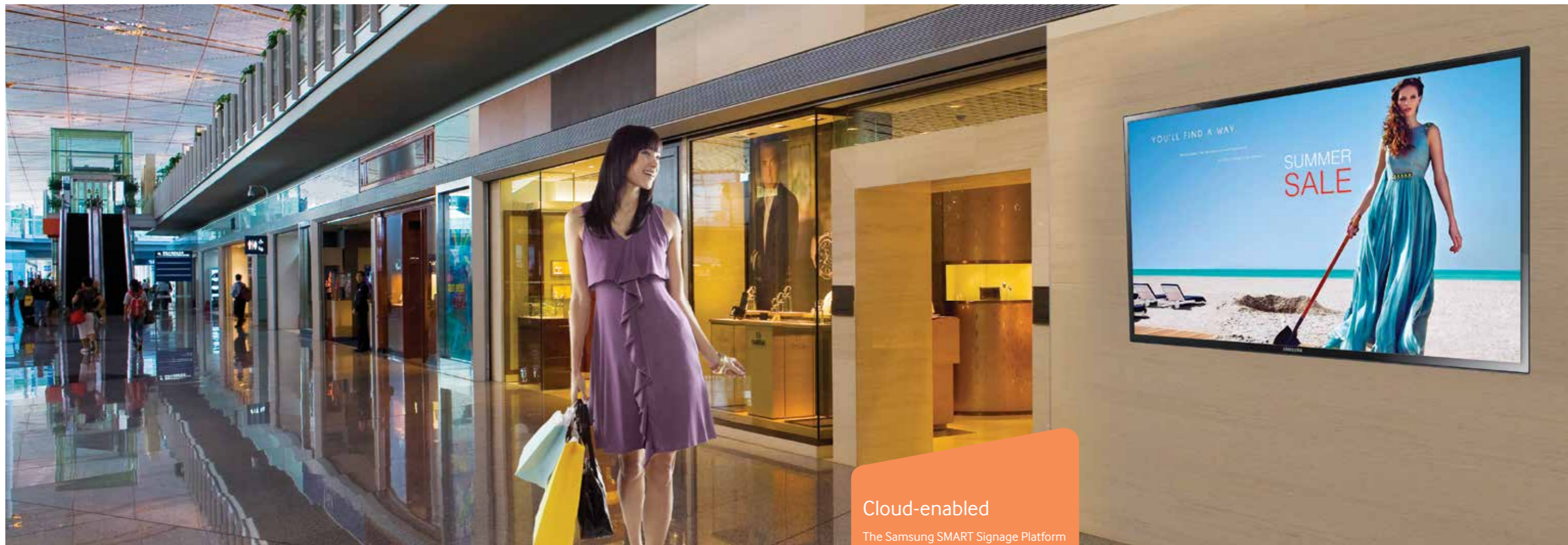
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Use the table below to identify which LFD suits you best.

Features	ME Series	MD Series	ED Series	PE Series	LE Series	UD Series	UE Series	SL Series
Semi outdoor / Outdoor								•
Embedded Media Player	•	•		•		•	•	
Edge Lit	•			•	•		•	
Direct Lit		•	•			•		•
High Brightness				•	•	•		•
High Connectivity	•			•	•	•	•	•
Premium				•	•	•	•	•
Economical		•	•					
Light Weight	•	•	•				•	
Thin Bezel	•	•	•			•	•	•
Slim	•		•	•			•	
Video wall						•	•	
Touch	•	•*	•*					

All comparisons in terms of energy and cost savings are relating to the differences between Samsung's previous LCD and plasma displays and Samsung's new LED displays.

\*With ED75C and ED65C only \*only available with MD65C



# Samsung SMART Signage Platform (SSSP)

Digital signage is all around us. It is used in airports, train stations, shopping centres, supermarkets, hospitals, restaurants, schools, public buildings and business premises.

It is used to inform, warn, entertain, inspire and seduce; to generate sales and to provide better customer service. Yet, not every business is making the most of its potential. Many are put off by the perceived complexity of content creation and delivery, the need to purchase extra hardware or the ongoing cost of running and maintaining digital signage.

## No limitations

The Samsung SMART Signage Platform removes these barriers. The combination of energy-efficient Samsung large format displays, an embedded media player, integrated management software and a SDK for developers makes it easier than ever to make the transition from static signs to vivid, interactive content that can be updated at the touch of a button.

Whether you are new to digital signage or have established and sophisticated requirements, our new platform provides a better way of doing things. The embedded media player, built-in storage and integrated MagicInfo LITE and MagicInfo-S Premium software content management software give you everything you need to create, distribute, schedule and play vivid multimedia content.

## Suited to your requirements

With the flexibility to suit a wide range of applications, the platform supports standalone and network displays and 4 x 4 video walls. Depending on your requirements, you can transfer multimedia files to a display via USB removable storage and use the remote control to add material to pre-installed templates. Or, you can use a web-based remote management tool to send different content to multiple displays throughout your business. Whichever option you choose, simplicity and ease of use are guaranteed.



## Cloud-enabled

The Samsung SMART Signage Platform can send content from a web server directly to a display anywhere in the world. This lets you provide clear, consistent messaging across multiple locations and keep content fresh and relevant.



From a central location, you can quickly update content with new pricing or special offers to take advantage of new business opportunities. By using digital signage in a more dynamic way, you can maximise opportunities to generate income and profit.

## Eye-catching Multimedia

Let your imagination run free with Samsung SMART Signage Platform. MagicInfo LITE and MagicInfo-S Premium software support a wide range of multimedia formats to add interest and dynamism to your content, including .avi, .mkv, .asf, .wmv and .mp4.

With sophisticated features like scrolling text and graphics and the ability to show two videos in one screen, the embedded solution will meet most users' needs.

Those with more demanding requirements can future-proof their system and access additional functionality by attaching a small PC module running Samsung MagicInfo-S Premium software to the back of a display. This lets you add RSS feeds, web pages, overlapping video and other elements to your content, including support for interactive touch.



Integrate video



Add sound



Static or rolling images

# Easy to create content and distribution



### Simple, Cost-effective Solution

Samsung SMART digital signage displays offer a powerful streamlined solution, providing savings in hardware, installation and operating costs. Software can be developed for your specific application, for seamless content delivery with lower total cost of ownership (TCO).



### Customised Solutions

Backed by a stable of top-tier software developers and solution providers, customers will have access to some of the most successful signage experts in the world, to assist in creating customised solutions. The platform will make life easier for any organisation looking to transition from static signage to rich, dynamic digital displays.

### Software Developer Kit

Samsung's Software Developer Kit (SDK) allows the software community to develop a customised solution. End users can benefit from third-party development of apps and content, or end users can develop custom apps utilising their own development team.

### Extensive Content Support

Samsung's SMART Signage Platform supports a wide range of 1920x1080 video and audio codecs, including those with extensions .avi, .mkv, .asf, .wmv, .mp4 and many more.



## Embedded Media Chip



SOC (System on Chip) or application processor is a microprocessor with a specialised architecture for deployment in embedded systems, such as Samsung Large Format Displays.

Samsung LFDs with SOC embedded have the ability to decode a majority of multimedia codecs delivering

enhanced multimedia content experience through Software which use SOC resources.

This can be combined with large internal LFD memory therefore eliminating the need to use an external PC or Media Player and help to keep costs low.

### SOC Specifications

Processor	Cortex-A9 1GHz Dual Core CPU
On-Chip Cache Memory	L1 (I/D): 32KB / 32KB, L2 (Unified): 512KB
Clock Speed	1GHz CPU Dual
Main Memory Interface	1GB Dual 32bit DDR3-667 (1333MHz)
Graphics	2D & 3D Graphics Engine – Up to 1920x1080, 32bpp – Supports OpenGL ES
Storage (FDM)	4GB or 8GB (Up to 2GB Occupied by O/S)
Multimedia	Video Decoder - MPEG-1/2, H.264/AVC (Dual) - VC-1, JPEG, PNG Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.
IO Ports	USB 2.0
Operating System	Linux



At a time when businesses must justify every pound they spend, Samsung's economical digital signage platform has real appeal for system integrators and end users.

- Image rotation feature enables users to change images from landscape to portrait mode without having to buy a separate PC module.
- Web-based remote management allows administrators to upgrade software on all displays from a central location.
- Remote diagnostics keeps maintenance to a minimum.
- Lightweight displays require less support for easier installation and repositioning.

# MagicInfo

## Easy Content Creation

MagicInfo is the powerful authoring and content management software at the heart of Samsung SMART Signage Platform. Every LFD display comes pre-installed with MagicInfo LITE and either MagicInfo-S Premium (for standard displays) or MagicInfo-S VideoWall (for video wall displays).



**MagicInfo LITE** offers useful entry-level features, such as the ability to store and schedule content from USB storage on standalone LFDs. It can also manage connected LFDs via a web management server.



**MagicInfo-S Premium** provides extra functionality including 70 pre-installed templates, both portrait and landscape; network scheduling of multiple LFDs with varied content; and advanced display options, such as showing two videos on the same screen.



**MagicInfo-S VideoWall** offers similar functionality with support for video walls and the ability to spread one video clip across multiple screens or show a different clip on each monitor.



Create beautiful visuals easily using a selection of media files, MagicInfo, a USB and a compatible LFD device.



### Create content in 4 steps

At the heart of MagicInfo is the template manager. This software allows the user to quickly generate their own content with consummate ease.

**Step 1** - Select the template manager in the MagicInfo menu

**Step 2** - Select from one of the 70 pre-loaded templates, 35 landscape and 35 portrait.

**Step 3** - Upload your own content including images, text and video simply by plugging in a USB drive.

**Step 4** - Save your custom template and select 'run'.



### MagicInfo VideoWall

VideoWall is an application that publishes video wall contents created in the authoring tool MagicInfo VideoWall Author, or general contents (images, movies, etc.), through its VideoWall Console and plays the published contents on the video wall monitors.

#### MagicInfo VideoWall Author

- Create and edit formal and informal video wall contents to be displayed on up to 16 monitors
- Produces screens divided into multiple elements
- Supports various elements (Image, Video, IP Camera, PC Screen)
- Enables the creation of VideoWall contents using timeline
- Creates scenes using pages

#### MagicInfo VideoWall Console

- Content playback on non-linear or irregular video wall monitors as well as on regular matrix video wall monitors
- Playback of contents using various layouts as predefined
- Job Schedule Features
- Live editing of the currently playing content on video wall monitors
- Playback of images from IP Camera or PC Screen on video wall monitors using LivePlayer
- Working with MagicInfo-i Premium Edition Server MagicInfo Video Wall Client
- VideoWall Client plays the published contents

ME Series

Super bright, slim, lightweight display featuring edge-lit LED technology.



These ultra-slim displays deliver brilliant images that demand to be noticed. The narrow bezel maximises screen area adding real impact to your messages, while the svelte, lightweight design aids easy installation.

ME Series Features



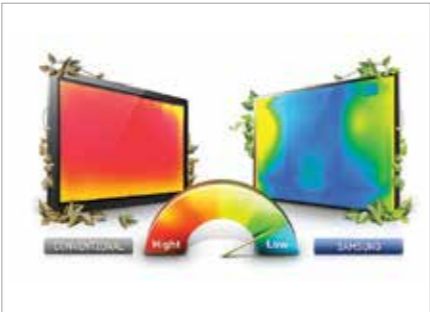
Edge-Lit LED Technology

Edge-lit LED solution utilises LED lamps around the edge of the panel so the LEDs emit light on the side of the panel. This results in a much thinner screen that requires fewer lamps meaning reduced power consumption and less heat generation. Its slim and light weight design offers heavy weight communication solutions for any business looking to convey concise marketing or educational messages.



High Connectivity

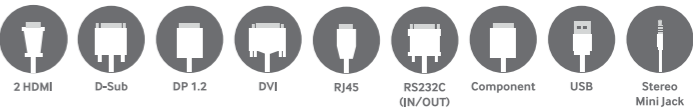
Access a wide range of digital content for a more engaging user experience with our comprehensive connectivity options. Connect PCs and other compatible devices to display the content that is most relevant to your audience. The ME Series lets you control your display with both Ethernet/ RS-232C remote control simultaneously. The ME Series also benefits from having 2 HDMI ports.



Reduced Heat

Conventional LFDs emit consistent amounts of heat across the breadth of the display, while the new Samsung edge lit not only minimises it but centralise it around the sides of the screen. This proves helpful in creating a more enjoyable environment to be in, especially when working in close proximity to the displays, like at a business convention.

Connections at a glance



ME Series Specifications

Model			ME32C	ME40C	ME46C	ME55C	ME75C
Panel	Diagonal Size		32"	40"	46"	55"	75"
	Type		60 Hz LED BLU			120 Hz LED BLU	240 Hz LED BLU
	Resolution		1,920 x 1,080 (16:9)				
	Pixel Pitch (mm)		0.12 (H) x 0.36 (V)	0.15 (H) x 0.46 (V)	0.17 (H) x 0.53 (V)	0.17 (H) x 0.53 (V)	0.28 (H) x 0.85 (V)
	Active Display Area (mm)		698.4 (H) x 392.85 (V)	885.6 (H) x 498.15 (V)	1018.08 (H) x 572.67 (V)	1018.08 (H) x 572.67 (V)	1650.24 (H) x 928.26 (V)
	Brightness (Typ.)		450 cd/m²				550 cd/m²
	Contrast Ratio		5,000 : 1				
	Viewing Angle (H/V)		178:178				
	Response Time (G-to-G)		8ms				
	Display Colours		16.7 M				
	Colour Gamut		72%				
	Display	Dynamic C/R		10,000 : 1			
H-Scanning Frequency		30 ~ 81 kHz					
V-Scanning Frequency		48 ~ 75 Hz					
Maximum Pixel Frequency		148.5 MHz					
Connectivity	Input	RGB	Analogue D-SUB, DVI-D, Display Port 1.2				
		Video	HDMI1, HDMI2, Component (CVBS Common)				
		Audio	Stereo Mini Jack				
	Output	RGB	DP 1.2 (loop-out)				
		Audio	Stereo mini jack				
	External Control		RS232C (in/out) Through Stereo Jack, RJ45				
	External Sensor		IR, Ambient Light (Optional)				
Power	Type		Internal				
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz				
	Power Consumption	Max (W/h)	77	110	121	143	319
		Typical (W/h)	62	93	97	122	290
		BTU (Max)	262.57	375.1	412.61	487.63	1087.79
		Sleep Mode	Less Than 0.5W				Less Than 1W
		Off Mode					
Mechanical Specs	Dimension (mm)		W734.8 x H433.8 x D29.9	W922.1 x H539.4 x D29.9	W1057.6 x H615.8 x D29.9	W1248 x H722.4 x D29.9	W1678.2 x H958.7 x D48.4
	Weight (kg)		6.7	10.6	13.1	16.4	44
	VESA Mount (mm)		200 x 200		400 x 400		
	Touch Overlay		Optional				
	Protection Glass						
	Stand Type		Foot stand (optional)				Stand (optional)
	Bezel Width (mm)		16.2 (Bottom 20.8)	16.2 (Bottom 20.9)	17.3 (Bottom 20.9)	17.2 (Bottom 20.8)	12.5mm (Bottom 15.0mm)
Feature	Embedded Media Player		Samsung SMART Signage Platform with 4GB storage (for full system on chip specifications, see page 6)				

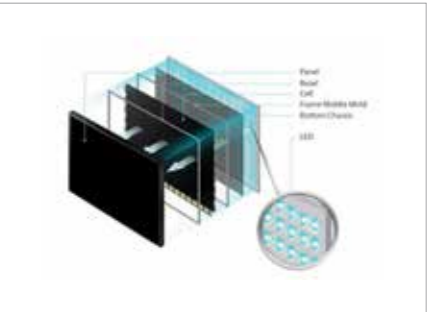
MD Series

Economical and lightweight display featuring a number of connectivity options.



The MD Series brings a touch of sophistication to high traffic areas in commercial, public and corporate environments. Easy to transport and install, the screens combine a thin chassis with slim bezels that help focus attention on the message not the medium.

MD Series Features



Direct-Lit LED Technology

Direct-lit LED technology provides the brilliance and energy savings of LED technology, at a lower price point. Direct-lit LED technology allows users to upgrade to LED for the same price as CCFL LFD.



Low power consumption

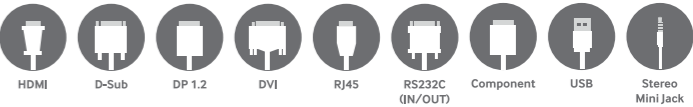
The Samsung MD Series deliver a cost-effective solution that's also gentle on the planet with the eco-friendly, low power consuming LED back light solution. Plus, you can optimise the conditions of your digital signage by reducing the amount of heat radiating through the actual display area.



Narrow Bezel

MD Series displays feature narrow bezels of just 17.5mm/.68" with a bottom bezel of 21.5mm/.84" (MD32: 16.5mm/.64" with a bottom bezel of 22mm/.80"). Narrow bezels provide a sleek, sophisticated look while providing maximum viewing area.

Connections at a glance



MD Series Specifications

Model		MD32C	MD40C	MD46C	MD55C	MD65C	
Panel	Diagonal Size	32"	40"	46"	55"	65"	
	Type	60 Hz LED BLU			120 Hz LED BLU		
	Resolution	1,920 x 1,080 (16:9)					
	Pixel Pitch (mm)	0.12 (H) x 0.36 (V)	0.15 (H) x 0.46 (V)	0.17 (H) x 0.53 (V)	0.21 (H) x 0.63 (V)	0.24 (H) x 0.74 (V)	
	Active Display Area (mm)	698.4 (H) x 392.85 (V)	885.6 (H) x 498.15 (V)	1018.08 (H) x 572.67 (V)	1209.6 (H) x 680.4 (V)	1428.48 (H) x 803.52 (V)	
	Brightness (Typ.)	350 cd/m²				450 cd/m²	
	Contrast Ratio	5,000:1				4,000:1	
	Viewing Angle (H/V)	178:178					
	Response Time (G-to-G)	8ms				6.5ms	
	Display Colours	16.7M					
	Colour Gamut	72%				70%	
	Display	Dynamic C/R	10,000 : 1 (AV Mode)				10,000 : 1
H-Scanning Frequency		30 ~ 81 kHz					
V-Scanning Frequency		48 ~ 75 Hz					
Maximum Pixel Frequency		148.5 MHz					
Connectivity	Input	RGB	Analogue D-SUB, DVI-D			Analogue D-SUB, DVI-D, Display Port 1.2	
		Video	HDMI, Component (CVBS Common)			HDMI1, HDMI2, Component(CVBS Common)	
		Audio	Stereo Mini Jack				
	Output	RGB	N/A			Display Port 1.2 (Loop-Out)	
		Video	N/A				
		Audio	Stereo Mini Jack				
		Power Out	N/A				
	External Control	RS232C (in/out) Through Stereo Jack, RJ45					
	External Sensor	N/A				IR, Ambient Light (Optional)	
Power	Type		Internal				
	Power Supply		AC 100 - 240 V~ (+/- 10%), 50/60 Hz				
	Power Consumption	Max (W/h)	77	110	121	165	253
		Typical (W/h)	47	58	65	866.4	230
		BTU (Max)	262.57	375.1	412.61	562.65	862.73
		Sleep Mode	Less Than 0.5W				Less Than 1W
		Off Mode					
Mechanical	Dimension (mm)		W736 x H436 x D93.5	W925.4 x H542.6 x D93.5	W1057.8 x H617 x D94.5	W1248.7 x H724.2 x D94.5	W1467.4 x H848 x D56.2
	Weight (kg)		6.4	9.8	12.6	18.5	26.8
	VESA Mount (mm)		200 x 200		400 x 400		
	Protection Glass		N/A				
	Touch Overlay		N/A				
	Stand Type		Foot stand (optional)				
	Bezel Width (mm)		16.3 (Bottom 21.9)	17.4 (Bottom 22.0)	17.4 (Bottom 22.0)	17.5 (Bottom 22.2)	18.0 (Bottom 23.5)
Feature	Embedded Media Player		Samsung SMART Signage Platform with 4GB storage (for full system on chip specifications, see page 6)				

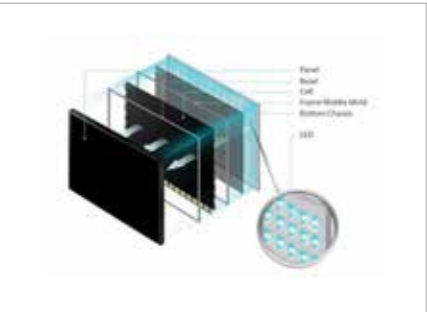
ED Series

An economical display boasting low energy consumption.



An entry-level Direct-Lit LED display for budget-conscious users. Its low energy consumption make this robust, reliable display the wise choice for budget-conscious users with predictable needs and uncomplicated requirements.

ED Series Features



Direct-Lit LED Technology

Direct-lit LED technology provides the brilliance and energy savings of LED technology, at a lower price point. Direct-lit LED technology allows users to upgrade to LED for the same price as CCFL LFD.



Affordable Startup Cost and Economical Operation

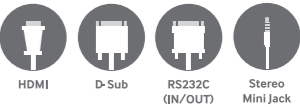
ED Series displays are affordable, they're also every bit as reliable as our most expensive display panels. We're so confident in the quality of our ED Series.



Slimmer, Narrower, and Lighter Design

The ED Series displays feature a new lighter design, allowing for easier installation. The displays are also thinner and utilise a narrower bezel design.

Connections at a glance



ED Series Specifications

Model			ED32C	ED40C	ED46C	ED55C	ED65C	ED75C
Panel	Diagonal Size		32"	40"	46"	55"	65"	75"
	Type		60Hz LED BLU	60Hz LED BLU		120Hz LED BLU		240Hz LED BLU
	Resolution		1920x1080 (16:9)					
	Pixel Pitch (mm)		0.17025(H) x 0.51075(V)	0.15 (H) x 0.46 (V)	0.17 (H) x 0.53 (V)	0.21 (H) x 0.63 (V)	0.24 (H) x 0.74 (V)	0.28 (H) x 0.85 (V)
	Active Display Area (mm)		697.6845(H) x 392.256(V)	885.6 (H) x 498.15 (V)	1018.08 (H) x 572.67 (V)	1209.6 (H) x 680.4 (V)	1428.48 (H) x 803.52 (V)	1650.24 (H) x 928.26 (V)
	Brightness (Typ.)		330 cd/m²	350 cd/m²				
	Contrast Ratio		4,000:1	5,000:1			4,000:1	
	Viewing Angle (H/V)			178:178				
	Response Time (G-to-G)			8ms			6.5ms	4ms
	Display Colours			16.7M				
	Colour Gamut			70%				
Connectivity	Input	RGB		Analogue D-SUB				
		Video		HDMI				
		Audio		Stereo Mini Jack				
	Output	RGB		N/A				
		Video						
		Audio	Stereo Mini Jack					
		Power Out		N/A				
	External Control			RS232C (In/Out) Through Stereo Jack				
External Sensor			N/A			IR, Ambient Light (Optional)		
Power	Type			Internal				
	Power Supply		Max 77	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz				
	Power Consumption	Max (W/h)		110	121	165	290	360
		Typical [W/h]		76	88	120	180	247
		BTU (Max)	262.57	375.1	412.61	562.65	988.9	1227.6
		Sleep Mode		less than 0.5W			less than 1W	
		Off Mode						
Mechanical	Dimension (mm)		W736 x H434.5 x D93.7	W925.4 x H541 x D93.6	W1057.7 x H615.8 x D94.8	W1247.7 x H722.9 x D94.8	W1467.4 x H848 x D64.9	W1675 x H959.1 x D64.8
	Weight (kg)		6	9.3	11.9	18.3	26.8	36.6
	VESA Mount (mm)			200 x 200	400 x 400			
	Protection Glass			N/A				
	Touch Overlay			N/A			Optional	
	Stand Type			Foot Stand (Optional)				
	Bezel Width (mm)		17.4 (Bottom 20.4)	17.4 (Bottom 20.4)	17.4 (Bottom 20.8)	17.0 (Bottom 21.5)	18.0 (Bottom 23.5)	10.9 (Bottom 16.9)
Feature	Embedded Media Player			N/A				

# PE Series

A premium display designed for continuous use  
24 hours, 7 days a week.



The PE Series is everything you would expect from a premium display designed for 24/7 operation. Robust and reliable anti-glare technology that delivers sharp pictures even in brightly lit spaces.

## PE Series Features



### Edge-Lit LED Technology

Edge-lit LED solution utilises LED lamps around the edge of the panel so the LEDs emit light on the side of the panel. This results in a much thinner screen that requires fewer lamps meaning reduced power consumption and less heat generation. Its slim and light weight design offers heavy weight communication solutions for any business looking to convey concise marketing or educational messages.



### Narrow Bezel Design

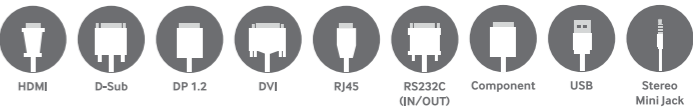
The PE Series displays feature a thinner design and utilise a narrower bezel. This super-narrow monitor makes it easy to make a big impact wherever it's displayed.



### High-Resolution Screen

PE Series displays feature 1920 x 1080 resolution with 700 nits brightness and 4000:1 contrast ratio, for sharp, detail-rich images and crisp, easily legible type.

Connections at a glance



## PE Series Specifications

	Model	PE40C	PE46C	PE55C	
Panel	Diagonal Size	40 "	46"	55"	
	Type	60 Hz LED BLU			
	Resolution	1,920x 1,080 (16:9)			
	Pixel Pitch (mm)	0.15 (H) x 0.46 (V)	0.17 (H) x 0.53 (V)	0.21 (H) x 0.63 (V)	
	Active Display Area (mm)	885.6 (H) x 498.15 (V)	1018.08c(H) x 572.67 (V)	1209.6 (H) x 680.4 (V)	
	Brightness (Typ.)	700 cd/m <sup>2</sup>			
	Contrast Ratio	4,000:1			
	Viewing Angle (H/V)	178:178			
	Response Time (G-to-G)	8 ms			
	Display Colours	16.7M			
	Colour Gamut	70%			
Display	Dynamic C/R	10,000:1			
	H-Scanning Frequency	30 ~ 81KHz			
	V-Scanning Frequency	56 ~ 75Hz			
	Maximum Pixel Frequency	148.5MHz			
Connectivity	Input	RGB	D-Sub, DVI-D, Display Port 1.2		
		Video	Component (CVBS common), HDMI		
		Audio	Stereo Mini Jack		
	Output	RGB	Display Port 1.2 (Loop-out)		
		Video	N/A		
		Audio	Stereo Mini Jack		
		Power Out	N/A		
	External Control		RS232C (in/out) Through Stereo Jack, RJ45		
	External Sensor		IR, Ambient Light (Optional)		
Power	Type		Internal		
	Power Supply		AC 100 - 240 V - (+/- 10%), 50/60 Hz		
	Power Consumption	Max (W/h)	165	187	209
		Typical (W/h)	114	131	149
		BTU (Max)	562.65	637.67	712.69
		Sleep Mode	Less than 1 W (with Ethernet)		
		Off Mode			
Mechanical	Dimension (mm)		W919.6 x H532 x D35.1	W1054.5 x H608.5 x D35.1	W1249.5 x H721 x D35.1
	Weight (kg)		13.5	16.4	20.5
	VESA Mount (mm)		200 x 200	400 x 400	
	Protection Glass		N/A		
	Touch Overlay				
	Stand Type		Foot Stand (Optional)		
	Bezel Width (mm)		13.5 (Bottom 14.4)	14.6 (Bottom 15.4)	16.5 (Bottom 17.1)
Feature	Embedded Media Player	Samsung SMART Signage Platform with 8GB storage (for full system on chip specifications, see page 6)			

# LE Series

Sturdy, versatile, affordable display for daily operation 24 hours 7 days a week.



For 24/7 operation on a tight budget, look no further than the LE Series. Designed to provide reliable operation around the clock, the LE Series is a no frills solution for busy environments. Optional Protection Glass protects the display and your investment. This screen comes with additional protection functionality as an option.

## LE Series Features



### Edge-Lit LED Technology

Edge-lit LED solution utilises LED lamps around the edge of the panel so the LEDs emit light on the side of the panel. This results in a much thinner screen that requires fewer lamps meaning reduced power consumption and less heat generation. Its slim and light weight design offers heavy weight communication solutions for any business looking to convey concise marketing or educational messages.



### Safeguard displays with Protection Glass

Designed for commercial environments, the LEC model has a mechanical structure that allows third-party service providers to install protection glass according to customer needs. The glass helps prevent the display from being damaged by hazardous objects and dust.

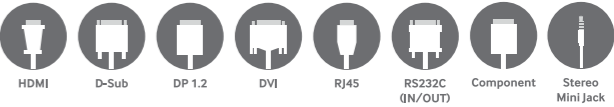


### Cost-effective Display Operation

Samsung Premium Signage Displays include several cost-saving features:

- Reduced power consumption and lower heat emissions
- The ability to operate without attention over long periods of time
- LED BLU (backlight unit) technology and power-saving features decrease energy use and reduce operating expenses.

Connections at a glance



## LE Series Specifications

Model		LE32C	LE46C	LE55C	
Panel	Diagonal Size	32"	46"	55"	
	Type	60 Hz LED BLU		120 Hz LED BLU	
	Resolution	1,920 x 1,080 (16:9)			
	Pixel Pitch (mm)	0.12 (H) x 0.36 (V)	0.17 (H) x 0.53 (V)	0.21(H) x 0.63(V)	
	Active Display Area (mm)	698.4 (H) x 392.85 (V)	1018.08 (H) x 572.67 (V)	1209.6 (H) x 680.4 (V)	
	Brightness (Typ.)	350 cd/m²	700 cd/m²		
	Contrast Ratio	3,000:1	4,000:1		
	Viewing Angle (H/V)	178:178			
	Response Time (G-to-G)	8 ms			
	Display Colours	16.7M			
	Colour Gamut	72%			
	Display	Dynamic C/R	10,000:1		
H-Scanning Frequency		30 ~ 81 KHz			
V-Scanning Frequency		56 ~ 85 Hz			
Maximum Pixel Frequency		148.5 MHz			
Connectivity	Input	RGB	Analogue D-SUB		
		Video	DVI, HDMI 1, HDMI 2, CVBS Component (D-sub 15 pin)		
		Audio	Stereo Mini Jack		
	Output	RGB	N/A		
		Video	N/A		
		Audio	Stereo Mini Jack		
		Power Out	N/A		
	External Control	RS232C (in/out) Through Stereo Jack, RJ45			
External Sensor	N/A				
Power	Type	Internal			
	Power Supply	AC 100 - 240 V - (+/- 10%), 50/60 Hz			
	Power consumption	Max (W/h)	145	200	220
		Typical (W/h)	57	99	123
		BTU (Max)	494.45	682	750.2
		Sleep mode	Less than 0.5 W		
		Off mode			
Mechanical	Dimension (mm)	W744 x H452.7 x D65.9	W1061 x H619.8 x D51.7	W1252.4 x H727.7 x D51.7	
	Weight (kg)	9.1	17.4	23.6	
	VESA mount (mm)	200 x 200	400 x 400		
	Protection Glass	N/A			
	Touch Overlay				
	Stand Type	Foot Stand (Optional)			
	Bezel Width (mm)	21.4 (L/R), 28.5 (T/B)	20.5 (Bottom 24.7)	20.5 (Bottom 24.7)	
Feature	Embedded Media Player	N/A			

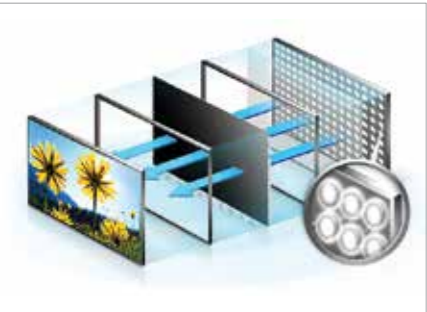
UD Series

More image and less bezel  
for maximum impact.



The Samsung UD Series is a spectacular, striking LFD display. It can be used to form wall panels that will transform your business site. At just 5.5mm (bezel to bezel), it has the slimmest bezel of all LFDs, giving your audience a truly unique and immersive visual experience. The UD Series uses direct LED technology to give you superior high definition quality, optimising the impact of images and messages on your customers.

UD Series Features



Direct-Lit LED Technology

At Samsung, you get cost-effective display solutions with Direct-lit technology. The LED are situated behind the panel and the light is emitted from the rear. It is easy to fit and bright colour uniformity means that you can enjoy the same innovative LED technology.



Professional Solution For Video Wall

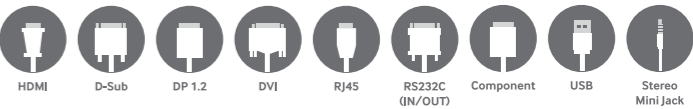
Samsung is changing the look, cost, and longevity of video display walls with patented technology. With a super narrow bezel-bezel of just 5.5mm (bezel-to-bezel), focus will now be on images rather than the frame. The UD Series removes any distraction from your side to provide a greater surface area, which can be useful when creating a video wall.



High Brightness

The UD Series has a super-bright display of 700 nits for a more vivid viewing experience. Its vibrant, life-like images are easy to read and it also has a glare-proof surface to eliminate compromised viewing.

Connections at a glance

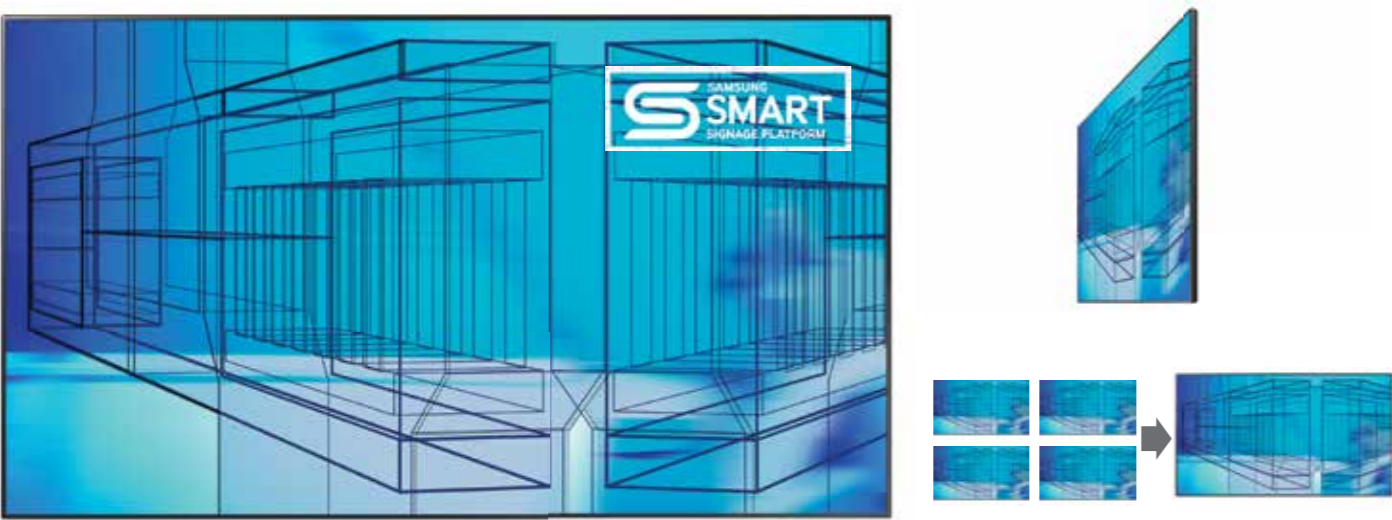


UD Series Specifications

	Model		UD22B	UD46C	UD55C	UD46C-B
Panel	Diagonal Size		21.6"	46"	55"	46"
	Type		S-PVA (DID)	D-LED DID		
	Resolution		960 x 960 (1:1 Aspect Ratio)	1,920 x 1,080		
	Pixel Pitch (mm)		0.13 (H) x 0.13 (V)	21.4 (L/R), 28.5 (T/B)	20.5 (Bottom 24.7)	20.5 (Bottom 24.7)
	Active Display Area (mm)		387.36 x 387.36	1,018.08 mm x 572.67 mm	1,209.6 mm x 680.4 mm	1,018.08 mm x 572.67 mm
	Brightness (Typ.)		450 cd/m²	700 cd/m²		450 cd/m²
	Contrast Ratio		4,000:1	3,500:1		
	Viewing Angle (H/V)		178:178			
	Response Time (G-to-G)		8 ms			6.5 ms
	Display Colours		16.7 M			
	Colour Gamut		72%	69%		68%
	Display	Dynamic C/R		9,000:1	10,000:1	
H-Scanning Frequency		30 ~ 81KHz				
V-Scanning Frequency		56Hz ~ 85Hz	48 ~ 75Hz		56Hz ~ 85Hz	
Maximum Pixel Frequency		148.5MHz				
Connectivity	Input	RGB	DVI-D, Display Port 1.2	Analogue D-SUB, DVI-D, Display Port 1.2		Analogue D-SUB, DVI-D
		Video	HDMI	HDMI1,HDMI2, Component(CVBS Common)		
		Audio	N/A	Stereo mini jack		
	Output	RGB	DVI-D (Loop-out)	DP 1.2 (loop-out)		DVI-D (loop-out)
		Video	N/A			
		Audio	Stereo Mini Jack			
		Power Out	N/A			
	External Control		RS-232C (in and out), RJ45			
	External Sensor		Attached	Detachable type (IR, Ambient)		
	Power	Type		Internal		
Power supply		AC 100 - 240 V - (+/- 10%), 50/60 Hz				
Power consumption		Max (W/h)	71.50	165	220	130
		Typical (W/h)	67	87	110	113
		BTU (Max)	243.815	563	750	443.3
		Sleep Mode	Less than 0.5 W			
		Off Mode				
Mechanical	Dimension (mm)		W393.3 x H393.3 x D81.5	W1023.8 x H578.4 x D96	W1215.3 x H686.1 x D96	W1023.7 x H578.3 x D95.5
	Weight (kg)		6.5	18	24	18.2
	VESA Mount (mm)		300x300	600 x 400		
	Protection Glass		N/A			
	Touch Overlay					
	Bezel width		3.7 (U/L), 1.8 (R/B)	3.7 (U/L), 1.8(R/B)	3.7 (U/L), 1.8 (R/B)	3.5 (U/L), 2.0 (R/B)
Feature	Embedded Media Player		N/A	Samsung SMART Signage Platform with 4GB storage (for full system on chip specifications, see page 6)		N/A

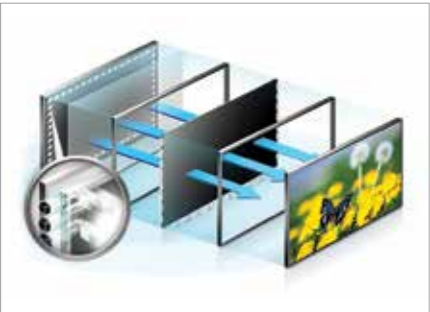
UE Series

Breakthrough with a totally immersive viewing environment.



Samsung UE Series is designed with a large image display area making it possible to get a great visual impact. Narrow bezels create a near-seamless image that allows customers to concentrate on the message being displayed. Easy to install and configurable for either landscape, portrait or video display wall, the UE Series video displays are flexible business assets for hospitality, civic and entertainment environments.

UE Series Features



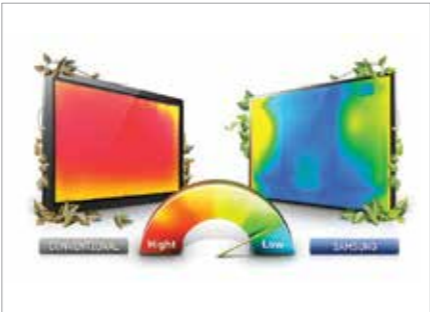
Edge-Lit LED Technology

Edge-lit LED solution utilises LED lamps around the edge of the panel so the LEDs emit light on the side of the panel. This results in a much thinner screen that requires fewer lamps. Its slim and light weight design offers heavy weight communication solutions for any business looking to convey concise marketing or educational messages.



Best Solution For Your Video Wall

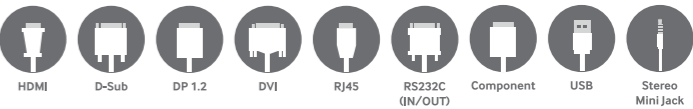
Samsung is changing the look, cost, and longevity of video display walls. At 11mm in thickness, the bezel to bezel for the Samsung UE Series has been designed to maximise viewing experience. The slim bezel removes any distraction from your sight to provide a greater surface area. The UE Series also utilises Edge-Type LED, allowing it to be very slim.



Reduced Heat

Conventional LFDs emit consistent amounts of heat across the breadth of the display, while the new Samsung LFD not only minimise it but centralise it around the sides of the screen. This proves helpful in creating a more enjoyable environment to be in, especially when working in close proximity to the displays, for example, at a business convention.

Connections at a glance



UE Series Specifications

Model		UE46C	UE55C
Panel	Diagonal Size	46"	55"
	Type	240 Hz e-LED BLU	
	Resolution	1920x1080 (16:9)	
	Pixel Pitch (mm)	0.15 (H) x 0.46 (V)	0.21 (H) x 0.63 (V)
	Active Display Area (mm)	1018.08 (H) x 572.67 (V)	1209.6 (H) x 680.4 (V)
	Brightness (Typ.)	500 cd/m <sup>2</sup>	
	Contrast Ratio	5,000:1	
	Viewing Angle (H/V)	178:178	
	Response Time (G-to-G)	4 ms	
	Display Colours	16.7M	
	Colour Gamut	72%	
	Dynamic C/R	100,000:1 (AV Mode)	
Display	H-Scanning Frequency	30 ~ 81KHz	
	V-Scanning Frequency	48 ~ 75Hz	
	Maximum Pixel Frequency	148.5MHz	
Connectivity	Input	RGB	Analogue D-SUB, DVI-D, Display Port 1.2
		Video	HDMI1, HDMI2, Component (CVBS Common)
		Audio	Stereo Mini Jack
	Output	RGB	Display Port 1.2 (Loop-out)
		Video	N/A
		Audio	Stereo Mini Jack
		Power Out	Stereo Mini Jack
	External Control		RS232C (In/Out) Through Stereo Jack, RJ45
	External Sensor		N/A
	Type		Internal
Power	Power supply		AC 100 - 240 V - (+/- 10%), 50/60 Hz
	Power Consumption	Max (W/h)	132
		Typical [W/h]	89
		BTU (Max)	450.12
		Sleep Mode	Less Than 0.5W
		Off Mode	
Mechanical	Dimension (mm)	132	154
	Weight	W1030.3 x H584.8 x D29.9	W1221.8 x H692.6 x D29.9
	VESA Mount (mm)	400 x 400	
	Protection Glass	N/A	
	Touch Overlay		
	Stand Type	Foot stand (optional)	
	Bezel Width (mm)	5.6	
Feature	Embedded Media Player	Samsung SMART Signage Platform with 8GB storage (for full system on chip specifications, see page 6)	

# SL Series

The ideal solution for displaying your messages in most window display environments.



Samsung outdoor LFDs are built to last, offering innovative technology, streamlined design and sturdy construction. With high-brightness, high-contrast screens that meet the demands of harsh outdoor environments, Samsung outdoor LFDs are suitable for virtually any digital signage application. The Samsung SL46B, with the narrow bezel also can be linked together to create an almost seamless video wall image.

## SL Series Features



### Super High Brightness

The panel on Samsung Semi-Outdoor LFDs are extra bright for clear image and enhanced readability.

Samsung LFDs are much brighter than conventional screen and deliver excellent visibility even under the brightest lighting conditions. With sharper and more vivid images your messages will attract more attention and break through the clutter.



### Optimised for Your 24/7 Business

With Samsung's innovative technology your message can be displayed 24 hours a day, 7 days a week.

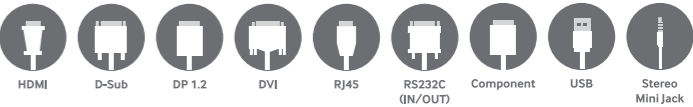
The Samsung Semi-Outdoor series utilises innovative cooling technology that improves heat dissipation while lowering internal temperatures. This allows you to run the LFD for 24 hours a day over longer periods without requiring costly servicing or maintenance.



### Slim Bezel

The slim bezel of just 11mm removes any distractions from your sight to provide a greater surface area, which can be useful when creating a video wall in a shop window. It allows your content to shine through with less distractions or obstructions.

Connections at a glance



## SL Series Specifications

Model			SL46B
Panel	Diagonal Size		46"
	Type		S-PVA (E-DID)
	Resolution		1920x1080 (16:9)
	Pixel Pitch (mm)		0.53 (H) x 0.53 (V)
	Active Display Area (mm)		1018.08 (H) x 572.67 (V)
	Brightness (Typ.)		1500 cd/m²
	Contrast Ratio		4,000:1
	Viewing Angle (H/V)		178/178
	Response Time (G-to-G)		8ms
	Display Colours		16.7M
	Colour Gamut		72%
Display	Dynamic C/R		10,000:1
	H-Scanning Frequency		30k ~ 81KHz
	V-Scanning Frequency		48 ~ 75Hz
	Maximum Pixel Frequency		148.5MHz
Connectivity	Input	RGB	Analogue D-SUB, DVI-D
		Video	HDMI, CVBS, Component (by D-SUB)
		Audio	RCA (L/R) Stereo mini jack
	Output	RGB	DVI-D (loop-out)
		Audio	Stereo mini jack
	External Control		RJ45, RS232C (in/out)
	External Sensor		Attached
Power	Type		Internal
	Power Supply		AC 100 - 240 V - (+/- 10%), 50/60 Hz
	Power Consumption	Max (W/h)	440
		Typical [W/h]	356
		BTU (Max)	1500.4
		Sleep Mode	Less Than 1W
		Off Mode	
Mechanical	Dimension	Set	W1049.4 x H602.6 x D125
		Package	W1145 x H726 x D300
	Weight	Set	26.8
		Package	32.6
	VESA Mount		600 x 400
	Protection Glass		N/A
	Touch Overlay		
	Stand Type		
	Bezel Width		11 mm
Feature	Special		Plug and Play, MagicInfo Lite, Slide in Module, Digital Daisy Chains, Built in Speakers, Lamp Error Detection, Anti Image Retention, Temperature Sensor, RS232C/RJ45 MDC, PIP/PBP, Video Wall (10x10), Pivot Display, Button Lock, Smart Scheduling
	Embedded Media Player		N/A

# Touch overlays

Upgrade your LFD with a quick-fit overlay



## Transform Existing LFDs into interactive touchscreens

When circumstances demand it, you can quickly enhance your Samsung display with optional touchscreen and protective overlays. It takes just minutes to add a lightweight, slimline overlay to a Samsung LFD, providing a flexible and cost-effective alternative to purpose-built all-in-one products.

### Upgrade your display

Use an overlay to add touch technology so that members of the public can interact with your content. An interactive whiteboard option lets you write on-screen to improve learning and make presentations more engaging. Save energy by using an LFD and overlay instead of a projector and interactive whiteboard.



## Touch Overlay

Model			CY-TM32LCA	CY-TM40LCA	CY-TM46LCA	CY-TM55LCC	CY-TE65LCC	CY-TE75LCC	CY-TM75LBC
	Series		ME32C	ME40C	ME46CC	ME55C	ED65C	ED75C	ME75C
	Diagonal Size		32"	40"	46"	55"	65"	75"	75"
Mechanical	Dimension (mm)	Set	W752.4 x H446.3 x D32.1	W939 x H551 x D32.1	W1076.1 x H628.5 x D32.1	W1267 x H735.7 x D32.1	W1517.2 x H892.2 x D25.5	W1738.2 x H1016.5 x D45.0	W1737.2 x H1015.5 x D25.5
		Package	W842 x H535 x D102	W1029 x H640 x D102	W1187 x H738 x D102	W1377 x H844 x D102	W1654 x H1012 x D265	W1890 x H1136 x D265	W1892 x H1136 x D267
	Weight (kg)	Set	4.2	5.8	7.3	9.5	22.2	26.6	21.1
		Package	5.4	7.1	9.2	12.2	29.4	36.5	32.2
	Glass Thickness		2.8					3.2	
	Glass Film		AG (Front), PET (Rear)						
	Glass Reflection Rate		≤10%						
	Glass Haze		≤15%						
	Frame Material		Aluminium Extrusion						
	Bezel Width (mm)		26.5	23.6	26.5	26.5	43.2	43.2	42.7
Touch	Touch technology		IR						
	Number of Simultaneous Touch		10 point			6 point			
Accessory	Included	Software	Magic IWB 2.0 Basic (e-Board S/W)						
		Hard-ware	N/A				Pen Tray (Including USB Hub with 1 Up, 2 Down), Pen		

# Set Back Boxes



This set-back box guarantees high performance and is compatible with all the different types of products, including the SL, OL, MD, ME, UE and UD LFD Series. The box is mounted on the rear in the LFD. It includes a slide-in module designed to satisfy your changing needs and local demands.

## SBB Features



### Slim Design

The slim and sleek design of this set-back box saves you space and allows you to keep your professional space tidy. Despite its elegant design, it is a powerful unit with particularly convenient connectivity and several USB ports that enhance connectivity, allowing for easier control and management of content and providing crisp and clear images.



### Easy Maintenance

The SBB-C Series benefit from the fact that they are extremely easy to maintain. The main difference that is highlighted is if PC embedded LFD products are damaged or can't be used, they need to be replaced completely. However, with the SBB-C series, they can be easily and conveniently fixed and maintained, guaranteeing higher performance for longer.



### Reliable PC Module For Digital Signage

It is rare to have the Reliable Digital Signage Display Feature of other products on PC modules that have a 36-month warranty. However, you can rest assured that the Reliable PC Module for digital signage is sure to provide long-lasting quality.

## Set Back Boxes

Model			SBB-C	SBB-C	SBB-C	SBB-C	SBB-C	SBB-C
Model Code			SBB-D16CX2	SBB-D32CX2	SBB-D32CV2	SBB-Q16CX4	SBB-Q32CX4	SBB-Q32CV4
Media Player	CPU		AMD A4-3310M Dual-Core			AMD A8-3510M Quad Core		
	N/B		Integrated					
	S/B		Hudson-M3					
	Graphics Processing Unit		Radeon HD6480G (Integrated on APU)			Radeon HD6620G (Integrated on APU)		
	SSD		SSD 16GB	SSD 32GB		SSD 16GB	SSD 32GB	
	Memory		2GB (DDR3 SO-DIMM 2GB x 1)			4GB (DDR3 SO-DIMM 2GB x 2)		
	Ethernet		Gigabit Ethernet (RJ-45)					
	Connectivity	USB	2x USB 2.0, 2x USB 3.0					
		Output	1st: Magicinfo Out (DP Port, Up-to 1080p) 2nd: Display Port					
		Others	RJ-45, RS232 (D-SUB 9P)					
Operating System			Windows Embedded Standard 2009		Windows Embed- ded Standard 7	Windows Embedded Standard 2009		Windows Embed- ded Standard 7
Power	Type		Internal					
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz					
	Power consumption		70W (Max)					
Mechanical Spec	Dimension (mm)	Set	W310 x H219 x D32					
	Weight (kg)	Set	1.8					
		Package	2.5					
Operation	Operating Temperature		10°C~ 40°C					
	Humidity		10~80%					

## Compatibility chart

Series	SL	ED					MD				ME				PE		LE		UE		UD								
Model	SL46B	ED32C	ED40C	ED46C	ED55C	ED65C	ED75C	MD32C	MD40C	MD46C	MD55C	MD65C	ME32C	ME40C	ME46C	ME55C	ME75C	PE40C	PE46C	PE55C	LE32C	LE45C	LE55C	UE46C	UE55C	UD22B	UD46C	UD55C	UD46C-B
SBB-C	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓	✓	✓	✓	✓

# Plug-In Modules



Transform your Samsung LED large format displays (LFDs) into all-inclusive digital signage solutions to accommodate your business’ needs. The Plug-In Module PC (PIM) module can eliminate the need for external PCs and cables, maintaining a clutter-free display environment. This can help facilitate efficient space management and create a simplified environment.

## PIM Features



### Convenience

The Samsung Plug-in Module represents the ultimate in display convenience. The slim, lightweight PC simply plugs in to the LFD, with no need for external connection cables. By transferring power and signals internally, extra computers or clutter can be avoided. There is no need to manoeuvre heavy desktops or laptops, letting users save time and effort whilst reducing the risk of damage or injury.



### Slim and Lightweight Design

The compact, lightweight Samsung Plug-in Module PC option slots in nicely with our slim-edged LFDs. This ensures that your business displays look sleek and professional. The PIM’s efficient design keeps unit weight and depth to a minimum. Your business display area remains tidy, allowing customers to focus on the message presented to them.



### Embedded Standard 7 and Window 7 Professional for Embedded

Recommend for Digital Signage Usage  
Recommend for E-board Usage

## Plug-in Modules

Model		PIM	PIM	PIM
Model Code		SBB-PD32BV2	SBB-PQ32BV4	SBB-PQ28BP4
Embedded PC		AMD A4-3310M 2.1GHz Dual-core (boost up to 2.5GHz) 256KB(L1)/1MB(L2) Cache	AMD A8-3510M 1.8GHz Quad-core (boost up to 2.5GHz) 256KB(L1)/1MB(L2) Cache	
Memory		2GB (DDR3 SO-DIMM 2GB x 1)	4GB (DDR3 SO-DIMM 4GB x 1)	
Storage		SSD 32GB	SSD 32GB	SSD 128GB
Graphics		Radeon HD6480 Series (Integrated on APU)		
OS		Windows Embedded Standard 7		Windows 7 Professional for Embedded Systems
I/O Port		80 Pin OPS Port		
		Display Port Out		
		2x USB 2.0, 2x USB 3.0		
		Gigabit Ethernet (RJ-45)		
		Mic in, Audio Out		
Power	Power Consumption	60W (Max), 14W (Typical)	70W (Max), 15W (Typical)	70W (Max), 27W (Typical)
Mechanical Spec	Dimension (mm)	W200 x D175.6 x H34.4	W200 x D175.6 x H34.4	W200 x D175.6 x H34.4
	Weight (kg)	1.2		
Operation		10°C~ 40°C		
		10~80%		

## Compatibility chart

Series	SL	ED					MD					ME					PE		LE		UE		UD						
Model	SL46B	ED32C	ED40C	ED46C	ED55C	ED65C	ED75C	MD32C	MD40C	MD46C	MD55C	MD65C	ME32C	ME40C	ME46C	ME55C	ME75C	PE40C	PE46C	PE55C	LE32C	LE45C	LE55C	UE46C	UE55C	UD22B	UD46C	UD55C	UD46C-B
SBB-C						✓	✓					✓					✓	✓	✓	✓	✓	✓	✓						

To learn more about the Samsung Smart Signage Platform,  
please visit: [www.samsung.com](http://www.samsung.com)

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