

# Samsung MEC Series Displays

Slim, bright displays for delivering messages with improved versatility



## Highlights

- Deliver messages using crisp, clear, bright images in a large format display (LFD) with an ultra-clear pane
- Display a range of content without the need for an external media player using integrated System on Chip (SoC) technology
- Control displays remotely with multiple connectivity capabilities
- Engage viewers with options that include an interactive touch screen and enhanced content delivered by a Set-back Box-C (SBB-C)

## Upgrade digital messaging with vivid, versatile LFDs

Businesses are looking for higher-quality digital signage that offers viewers a more engaging experience. At the same time, companies want to provide digital signage at a lower initial cost by avoiding the expense of buying both a display and media player or PC. Managers also seek to lower energy and maintenance costs for digital signage. In addition, businesses want to display versatile content without incurring additional PC expense.

Samsung MEC Series LFDs produce crisp images with accurate color representation. Edge-type LED BLU units technology applied to the MEC Series displays result in slim and light LFDs which make them easier to handle and install. MEC Series displays are Energy Star 6.0 compliant and therefore contribute to lower overall total cost of operation.

MEC Series displays include an internal media player and software to control display content without cumbersome cables. Multiple connections enable display content to be implemented remotely. Businesses can increase viewer engagement with options such as an interactive touch-screen and SBB-A PC module.

**MEC Series displays offer businesses simplified control over exceptional digital messaging**



Figure 1. Samsung MEC series displays deliver crisp, clear and bright images

# Readily display a variety of images to suit specific business requirements

## Display rich messaging without the need for an external media player

MEC Series LFDs feature a built-in Samsung Smart Signage Platform that eliminates the need to purchase a separate PC or media player. These cost-saving standalone models include embedded MagicInfo® Premium S Player and MagicInfo Lite software for easier content control.

The internal players are based on innovative SoC technology that includes a powerful CPU and 4GB memory. Businesses can access content simply by plugging a USB drive into a port. Users can also save content and templates in internal memory to generate customized messaging. A remote control device enables content creation, playback and scheduling capabilities within a few clicks.

MEC Series displays also provide pivots and software that simplify image rotation between portrait and landscape modes. The platform offers two resolution options, original and auto full-sizing, which preserve image quality and resolution when images are rotated.

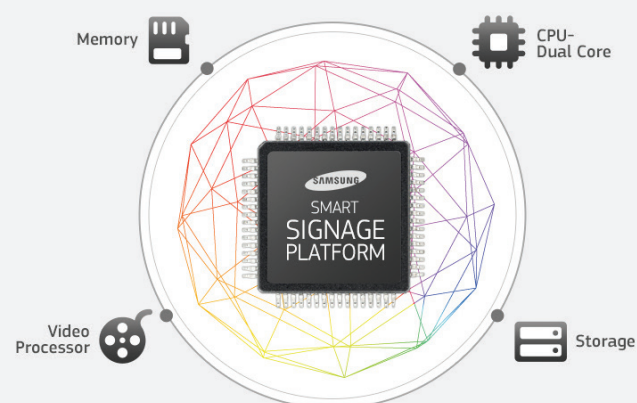


Figure 2. An integrated solution to provide a new digital signage experience

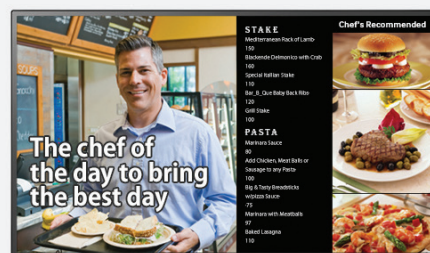


Figure 3. Create, display and manage. All with simple, effortless steps

## Access a broader range of digital content with powerful connectivity options

Although many conventional LFDs offer RJ45 or RS-232C connections, MEC Series displays enable the simultaneous use of both. The displays also provide access to content sources through DisplayPort® (DP) and two High-Definition Multimedia Interface® (HDMI®) connections.

Added connectivity options enable users to display a wider range of content tailored to individual audiences. Enhanced connectivity also enables users to share a single screen image with nearby units without purchasing separate video signal distributors for each display.

# Improve signage with versatile displays designed for ease of use

## Attract viewer attention with crisp pictures and text delivered in brilliant color

MEC Series displays range in size from 32 to 55 inches. The units use edge-type LED BLU technology with an ultra-clear panel, which improves readability by reducing light scatter and reflection. Image quality is further enhanced by:

- A brightness level of 450 nits
- A resolution of 1,920 x 1,080 (16:9) that generates sharp images
- An auto brightness sensor that adjusts for ambient light

The LED BLU design enables thinner, lighter-weight displays that occupy less space than conventional LFDs. These LFDs can be installed with ease and placed in myriad configurations using various stand and mount options. Narrow bezels and a sophisticated design reduce distractions.



Figure 4. MEC Series edge-type LED LFDs have side-panel lamps for streamlined design and lower operation cost

## Tailor content orientation more easily with Auto Image

Auto Image Rotation enables images to be rotated from landscape to portrait mode to customize the content display. For convenience, two resolution options are available when rotating an image: original resolution and auto full-sizing resolution.



Figure 5. Portrait to landscape image rotation enhances usability with no loss of resolution

# Enhance content delivery with e-Board and PC module options

## Increase appeal with optional interactive touchscreens and plug-in SBB-C modules

Businesses can install an overlay touchscreen with optical cameras that transform MEC Series displays into interactive e-Boards. A special antiglare film covering provides a smooth writing surface and a real handwriting feel.

The overlay touchscreen includes Samsung MagicIWB (Interactive White Board) software, upstream and two downstream USB ports.

An SBB-C PC module with MagicInfo® Premium i Player software can be added to the back of a unit without significantly increasing the screen depth.

MagicInfo® Premium i Player software works with MagicInfo Server over a network to provide full user management of network devices and content. With the optional SBB-C module, businesses can play a broader range of text and images, including Internet and Really Simple Syndication (RSS) content.

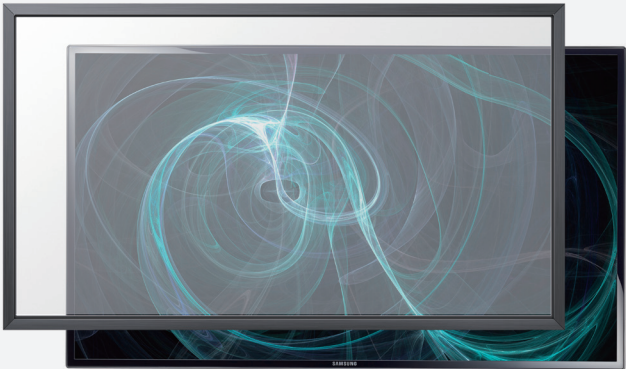


Figure 5. The Touch Module option provides a touch overlay that transforms the display into an interactive touch module

## Features and benefits

	Benefits
Ultra-clear panel	Reduces light scatter and reflection for improved readability
Edge-type LED BLU technology	Contributes to slim and lightweight design for easy installation and handling
Internal media player with SoC technology	Enables content display without the expense of a separate media player
RJ45, RS-232C, DP and HDMI connections	Provides the ability to share an image among multiple displays without purchasing a video signal distributor for each display
Optional interactive overlay touchscreen	Converts a display screen into an e-Board
Optional SBB-C PC module with MagicInfo® Premium i Player software	Increases control over displays and provides broader access to content sources



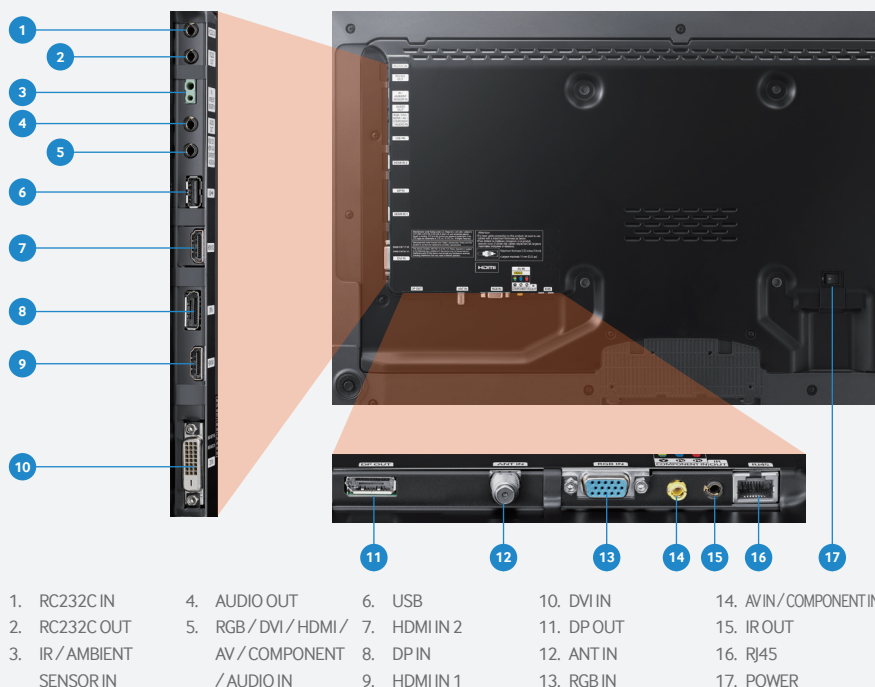
# Samsung MEC Series LED LFDs

## MEC

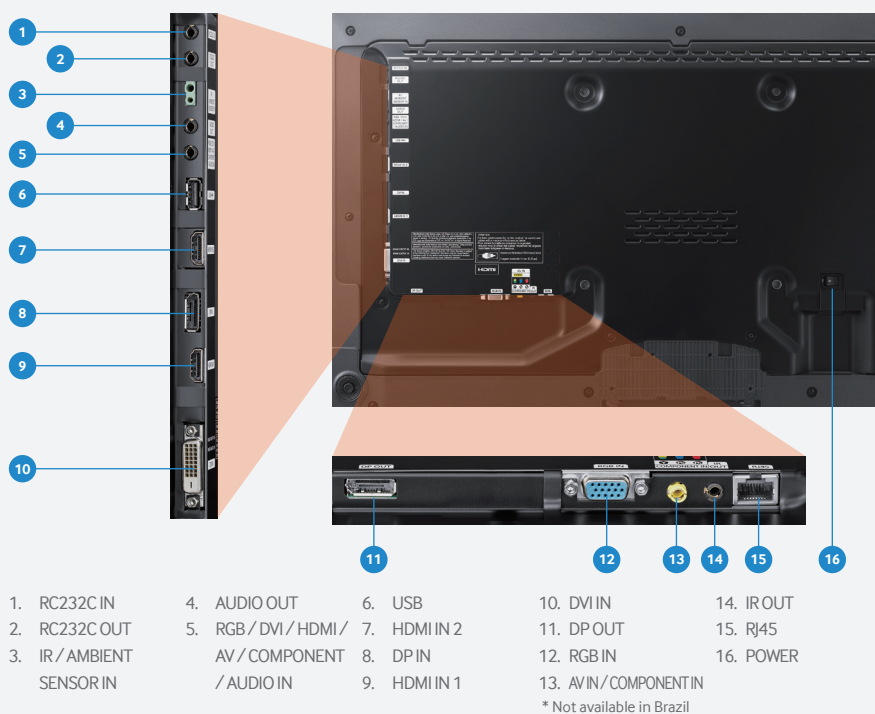
32" / 40" / 46" / 55"



### Connectors (North America/Korea)



### Connectors (Global)



# Samsung MEC Series LED LFDs

## Specifications

			ME32C	ME40C	ME46C	ME55C
Panel	Diagonal size		32 in.	40 in.	46 in.	55 in.
	Type		60 Hz LED BLU			120 Hz LED BLU
	Resolution		1,920 x 1,080 (16:9)			
	Pixel pitch (mm/in.)		0.121 x 0.363 0.004 x 0.014	0.153 x 0.461 0.006 x 0.018	0.176 x 0.530 0.006 x 0.02	0.210 x 0.630 0.008 x 0.024
	Active display area (mm/in.)		698.4 x 392.8 27.4 x 15.4	885.6 x 498.1 34.8 x 19.6	1,018.08 x 572.67 40.08 x 22.54	1,209.6 x 680.4 47.62 x 26.78
	Brightness		450 nit			
	Contrast ratio		5,000:1			
	Viewing angle (H/V)		178:178			
	Response time (G-to-G)		8 ms			
	Display colors		10bit Dithering - 1.07Billion			
	Color gamut		72%			
	Display	Dynamic C/R		10,000:1 (AV Mode)		
H-Scanning frequency		30 – 81 kHz				
V-Scanning frequency		48 – 75 Hz				
Maximum pixel frequency		148.5 MHz				
Connectivity	Input	RGB	Analog D-SUB, DVI-D, Display Port 1.2			
		Video	HDMI1, HDMI2, Component(CVBS Common)			
		Audio	Stereo mini jack			
	Output	RGB	DP1.2(Loop-out)			
		VIDEO	N/A			
		AUDIO	Stereo mini Jack			
		Power Out	N/A			
	External control		RS232C(in/out) thru stereo mini jack, RJ45			
	External Sensor		IR, Ambient Light			
	Power	Type		Internal		
Power supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz				
Power Consumption		Max[W/h]	77	110	121	143
		Typical[W/h]	62	93	97	122
		BTU(Max)	262.57	375.1	412.61	487.63
		Sleep mode	less than 0.5W			
		Off mode	less than 0.5W			
Mechanical specs	Dimension (mm/in.)	Set	734.8 x 433.8 x 29.9	922.1 x 539.4 x 29.9	1,057.6 x 615.8 x 29.9	1,248.0 x 722.4 x 29.9
		Package	833 x 518 x 120	1,020.0 x 616.0 x 130.0	1,167.0 x 721.0 x 140.0	1,369.0 x 848.0 x 199.0
	Weight (kg)	Set	6.7	10.6	13.1	16.4
		Package	8.3	12.6	16.7	22
	VESA mount (mm/in.)		200 x 200 7.87 x 7.87		400 x 400 15.74 x 15.74	
	Protection Glass		Optional			
	Stand type		Foot stand (optional)			
	Media player option type		N/A	Embedded, SBB-C (Attachable)		
	Bezel width (mm/in.)		16.2 / 0.6 (Top,Side) 20.8 / 0.8 (Bottom)	16.2 / 0.6 (Top,Side) 20.9 / 0.8 (Bottom)	17.3 / 0.6 (Top,Side) 20.9 / 0.8 (Bottom)	17.2 / 0.6 (Top,Side) 20.8 / 0.8 (Bottom)

# Samsung MEC Series LED LFDs

## Specifications

			ME32C		ME40C		ME46C		ME55C	
Operation	Operating Temperature		0°C – 40°C							
	Humidity		10~80%							
Key feature			Slim and light LFD with built-in MagicInfo® Lite							
Feature	Special		Magic Clone(to USB), Auto Source Switching & Recovery, Lamp Error Detection, Super Clear Coating, Temperature Sensor, RS232C/RJ45 MDC,Plug and Play (DDC2B), PIP/PBP, Video Wall(10x10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain(Supporting 2x2 UHD Resolution, HDCP Support), Smart Scheduling, Smart F/W update, Clock Battery(80hrs Clock Keeping) Built In MagicInfo(Lite, Premium-S, Videowall-S)							
	Internal layer (Embedded H/W)	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 (1.2GB Occupied by O/S, 2.8GB Available)							
		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							
Accessories	Optional	Stand	STN-L32D	STN-L32D	STN-L4055AD	STN-L4055AD				
		Mount	WMN4070SD WMN250MD	WMN4070SD WMN250MD	WMN4270SD WMN250MD	WMN4270SD WMN250MD				
			Specialty	CML400D (Ceiling Mount)	CML400D (Ceiling Mount)	CML450D (Ceiling Mount)	CML450D (Ceiling Mount)			
	Included	Quick Setup Guide, Warranty Card, Application CD, D-Sub cable, Power Cord, Remote Controller, Batteries, Component Gender, Holder P-Ring, Holder Wire Stand		Quick Setup Guide, Warranty Card, Application CD, D-Sub cable, Power Cord, Remote Controller, Batteries						
Media Player	CPU	SBB-C (Optional, No Mechanical Screw Hole)								
	N/B									
	S/B									
	GPU									
	FDM/HDD									
	Memory									
	Ethernet									
	Connectivity									USB
										Output
	Others									

## Legal and additional information

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### For more information

For more information about Samsung MEC Series video wall displays, visit [www.samsung.com/business](http://www.samsung.com/business) or [www.samsung.com/displaysolutions](http://www.samsung.com/displaysolutions)

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2014-04