

# 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 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.

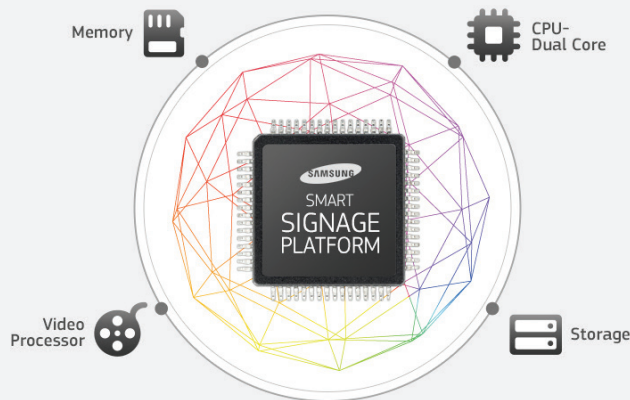


Figure 2. An integrated solution to provide a new digital signage experience

# 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

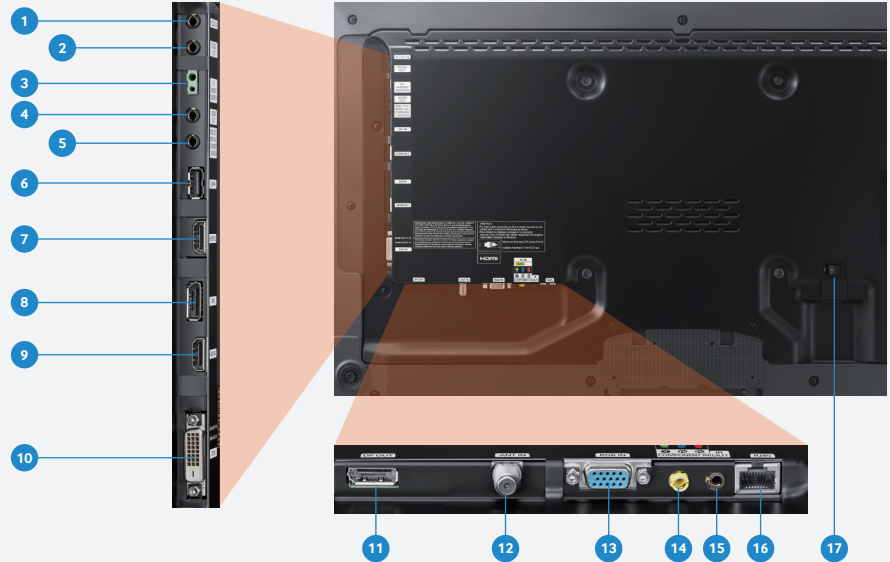
# Samsung MEC Series displays

## MEC

32" / 40" / 46" / 55"



### Connectors (North America/Korea)



- |                            |   |              |            |                        |
|----------------------------|---|--------------|------------|------------------------|
| 1. RC232C IN               | 4. AUDIO OUT                                  | 6. USB       | 10. DVI IN | 14. AV IN/COMPONENT IN |
| 2. RC232C OUT              | 5. RGB/DVI/HDMI/<br>AV/COMPONENT<br>/AUDIO IN | 7. HDMI IN 2 | 11. DP OUT | 15. IR OUT             |
| 3. IR/AMBIENT<br>SENSOR IN |   | 8. DP IN     | 12. ANT IN | 16. RJ45               |
|                            |   | 9. HDMI IN 1 | 13. RGB IN | 17. POWER              |

### Connectors (Global)



- |                            |   |              |                        |            |
|----------------------------|---|--------------|------------------------|------------|
| 1. RC232C IN               | 4. AUDIO OUT                                  | 6. USB       | 10. DVI IN             | 14. IR OUT |
| 2. RC232C OUT              | 5. RGB/DVI/HDMI/<br>AV/COMPONENT<br>/AUDIO IN | 7. HDMI IN 2 | 11. DP OUT             | 15. RJ45   |
| 3. IR/AMBIENT<br>SENSOR IN |   | 8. DP IN     | 12. RGB IN             | 16. POWER  |
|                            |   | 9. HDMI IN 1 | 13. AV IN/COMPONENT IN |            |

\* Not available in Brazil

# Samsung MEC Series displays

## Specifications

		ME32C	ME40C	ME46C	ME55C	
<b>Panel</b>	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	10 bit Dithering - 1.07 Billion				
Color gamut	72%					
<b>Display</b>	Dynamic C/R	10,000:1				
	H-Scanning frequency	30 – 81 kHz				
	V-Scanning frequency	48 – 75 Hz				
	Maximum pixel frequency	148.5 MHz				
<b>Sound</b>	Speaker type	Built-in speaker (10 W + 10 W)				
<b>Connectivity</b>	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 jack, RJ45					
External sensor	IR, Ambient Light					
<b>Power</b>	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 0.5 W			
Off mode	less than 0.5 W					
<b>Mechanical specs</b>	Dimension (mm/in.)	Set	734.8 x 433.8 x 29.9 (28.9 x 17.0 x 1.1)	922.1 x 539.4 x 29.9 (36.3 x 21.2 x 1.1)	1,057.6 x 615.8 x 29.9 (41.6 x 24.2 x 1.1)	1,248.0 x 722.4 x 29.9 (49.1 x 28.4 x 1.1)
		Package	833 x 518 x 120 (32.7 x 20.3 x 4.7)	1,020 x 616 x 130 (40.1 x 24.2 x 5.1)	1,167 x 721 x 140 (45.9 x 28.3 x 5.5)	1,369 x 848 x 199 (53.8 x 33.3 x 7.8)
	Weight (kg/lbs)	Set	6.7 (14.7)	10.6 (23.3)	13.1 (28.8)	16.4 (36.1)
		Package	8.3 (18.2)	12.6 (27.7)	16.7 (36.8)	22 (48.5)
	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)

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		ME32C	ME40C	ME46C	ME55C	
<b>Operation</b>	Operating temperature	0°C - 40°C				
	Humidity	10~80%				
<b>Key feature</b>		Slim and light LFD with built-in MagicInfo® Lite				
<b>Feature</b>	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 (10 x 10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain (Supporting 2 x 2 UHD Resolution, HDCP Support), Smart Scheduling, Smart F/W update, Clock Battery (80 hrs Clock Keeping) Built-in MagicInfo (Lite, Premium-S, Videowall-S)				
	Internal player (Embedded H/W)	Processor	Cortex®-A9 1 GHz Dual Core CPU			
		On-chip cache memory	L1 (I/D) : 32 KB / 32 KB L2 (Unified) : 512 KB			
		Clock speed	1 GHz CPU Dual			
		Main memory interface	1 GB Dual 32-bit DDR3-667 (1,333 MHz)			
		Graphics	2D & 3D Graphics Engine : Up to 1,920 x 1,080. 32 bpp / Supports OpenGL ES®			
		Storage (FDM)	4 GB (1.2 GB occupied by O/S, 2.8 GB 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®				
<b>Certification</b>	Safety	cUL (USA+Canada) : UL60950 TUV (Germany) : EN60950 CB (Europe) : IEC60950/EN60950 EK (Korea) : K60950 CCC (China) : GB4943.1 PSB (Singapore) : IEC60950 GOST (Russia) : IEC60950, EN55022 SIQ (Slovenia) : IEC60950, EN55022 PCBC (Poland) : IEC60950, EN55022 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM SASO (Saudi Arabia) : IEC60950 BIS(India) : IS13252				
	EMC	FCC (USA) : FCC Part 15, Subpart B class A CE (Europe) : EN55022, EN55024 VCCI (Japan) : V-3 (CISPR22) KCC (Korea) : KN22, KN24 BSMI (Taiwan) : CNS13438 (CISPR22) C-Tick (Australia) : AS/NZS3548 (CISPR22) CCC (China) : GB 9254-2008, GB 17625.1-2003				

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## Specifications

		ME32C	ME40C	ME46C	ME55C
Optional	Stand	STN-L32D	STN-L4055AD	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)
Accessories	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 N/B S/B GPU FDM/HDD Memory Ethernet Connectivity USB Output Others	SBB-C (Optional, No Mechanical Screw Hole)	SBB-C (Optional)	



## 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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2014-10

# Note

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