Samsung MEC Series LED LFDs

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 panel
- Save energy and reduce environmental impact with innovative edge-type LED BLU (backlight unit) technology
- Display a range of content without the need for an external media player using powerful System on Chip (SoC) technology
- Control displays remotely with multiple connectivity capabilities
- Engage viewers with options that include an interactive touchscreen and enhanced content delivered by a Set-back Box-A (SBB-A) PC module

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 are slimmer and weigh less than conventional LFDs, which make them easier to handle and install. Displays equipped with LED BLU technology use less energy, emit less heat and contain fewer harmful materials than alternative displays.

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 touchscreen 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 memory of up to 8 GB. 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.

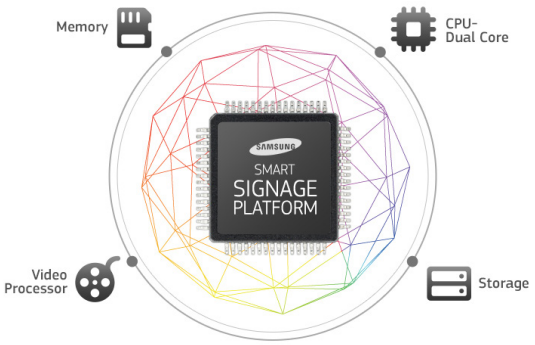


Figure 2. An integrated solution to provide a new digital signage experience

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 and an energyefficient, streamlined design.

Save energy costs and lower environmental impact

The LED BLU technology used in MEC Series displays requires fewer lamps and less electricity than conventional LFDs. As a result, the models meet ENERGY STAR® 6 standards.

The units operate at lower temperatures and emit less carbon dioxide (CO_2), which decreases cooling costs and helps the displays last longer.

The manufacturing process for LED LFDs is also easier on the environment. Producing the MEC Series requires fewer harmful chemicals than the process for making cold cathode fluorescent lamp (CCFL) displays.

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-i™ Premium software can be added to the back of a unit without significantly increasing the screen depth.

MagicInfo-i™ Premium software works with MagicInfo™ Server over a network to provide full user management of network devices and content. With the optional SBB-A 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.

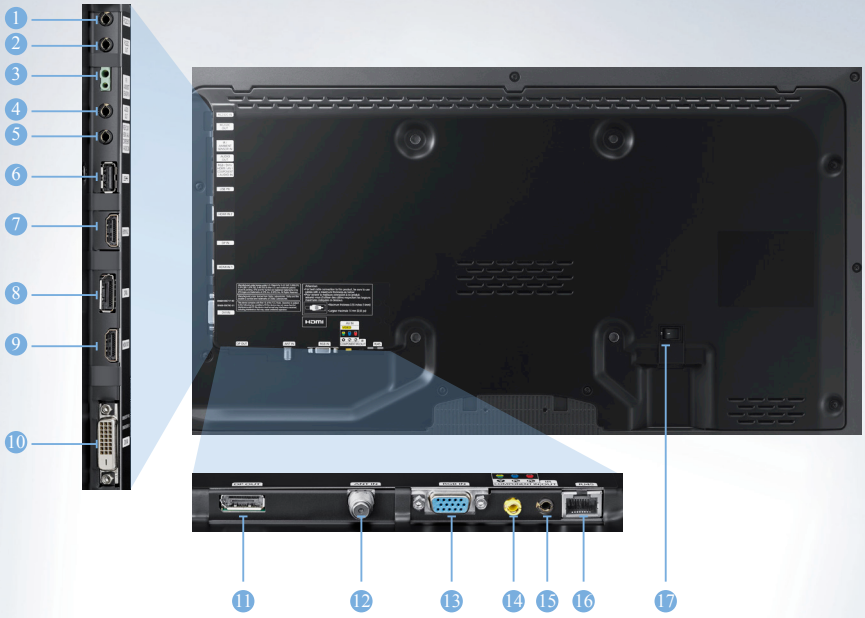
Features and benefits

Features	Benefits
Ultra-clear panel	Reduces light scatter and reflection for improved readability
Edge-type LED BLU technology	Saves energy and lowers operating temperatures for increased durability
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-A PC module with MagicInfo-i™ Premium software	Increases control over displays and provides broader access to content sources

MEC

32" / 40"/ 46"/ 55"

Connectors



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

Samsung MEC Series LED LFDs

Specifications

Series			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		0.121 mm (H) x 0.363 mm (V) (0.004 in. x 0.014 in.)	0.153 mm (H) x 0.461 mm (V) (0.15375 in. x .018 in.)	0.176 mm (H) x 0.530 mm (V) (0.006 in. x 0.02 in.)	0.210 mm (H) x 0.630 mm (V) (0.008 in. x 0.024 in.)
	Active display area		698.4 mm (H) x 392.85 mm (V) (27.49 in. x 15.46 in.)	885.6 mm (H) x 498.15 mm (V) (34.86 in. x 19.61 in.)	1,018.08 mm (H) x 572.67 mm (V) (40.08 in. x 22.54 in.)	1,209.6 mm (H) x 680.4 mm (V) (47.62 in. x 26.78 in.)
	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	Audio	Stereo mini jack			
	External control		RS232C(in/out) thru stereo jack, RJ45			
Power	Type		Internal			
	Power supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz			
	Power consumption Max (W/h)		77	110	121	143
Mechanical specs	Dimension	Set	734.8 mm X 433.8 mm X 29.9 mm	922.1 mmX 539.4 mm X 29.9 mm	1057.6 mmX 615.8 mmX 29.9 mm	1248.0 mmX 722.4 mmX 29.9 mm
	Weight	Set	6.7	10.6	13.1	16.4
	VESA mount		200 mm x 200 mm (7.87 in. x 7.87 in.)	200 mm x 200 mm (7.87 in. x 7.87 in.)	400 mm x 400 mm (15.74 in. x 15.74 in.)	400 mm x 400 mm (15.74 in. x 15.74 in.)
	Stand type		Foot stand (optional)			
	Media player option type		N/A	Embbeded, SBB-C (Attachable)		
	Bezel width		16.2mm (Bottom 20.8mm)	16.2mm (Bottom 20.9mm)	17.3mm (Bottom 20.9mm)	17.2mm (Bottom 20.8mm)
Key feature			Slim and light LFD with built-in MagicInfo™ Lite			

Specifications

Series			ME32C	ME40C	ME46C	ME55C
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)			
		IO Ports	USB 2.0			
		OS	Linux			
		Graphics	2D & 3D Graphics Engine - Up to 1920x1080. 32bpp - Supports OpenGL ES			
Accessories	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)
	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			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 LED LFDs, visit www.samsung.com/business.

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