

# Samsung EDC Series Signage Display

High-definition, energy-efficient d-led BLU digital signage for more impactful messages



## Highlights

- Deliver crisp, high-definition (HD) images with fewer distractions with the slim LED design and Ultra Clear Panel
- Save energy and reduce environmental impact with energy-efficient direct LED (d-led) BLU (backlight unit) technology
- Rely on sturdy large format displays (LFDs) with advanced controls and display orientation options
- Access a wider range of digital content with easier connectivity

## Engage viewers with crisp imagery and flexible signage tools

Mainstream and market segment businesses want to deliver distinctive messaging without distractions to viewers through high-quality digital signage. These businesses are also looking for ways to reduce startup, energy consumption and overall operating costs. In addition, companies want the flexibility to customize content to suit individual needs. IT managers desire a simplified way to manage multiple displays with a range of connectivity choices.

Samsung ED Series (EDC) d-led BLU LFDs provide high-quality imagery and low power consumption for reduced operating costs. The displays' slim, lightweight design enables economical installation for reduced startup costs

compared with cold cathode fluorescent lamp (CCFL) displays. Ultra Clear Panel and thin bezels enhance the viewer experience. ED Series (EDC) signage also offers powerful connectivity choices for flexibility.

## Captivate audiences with large-scale, attention-getting pictures and highly legible text

Samsung d-led BLU technology delivers superior picture quality, broader color definition, realistic color and richer black hues. Ultra Clear Panel provides sharper, more detailed pictures and crisper text. The panel reduces light scatter and reflection, enhancing the contrast ratio and readability regardless of the amount of light in the environment.

Images can be converted from landscape to portrait mode without changing the display mode in the content source. An ultra-slim bezel design provides an aesthetic look and enables the viewer to focus on the message rather than the device delivering it.

Because Samsung uses d-led BLU technology, ED Series (EDC) displays weigh as little as 6 kg (13.23 lb) and feature a slim design. The technology makes the units easier to handle and less expensive to install than CCFL displays.

# Gain flexibility with remote management and optimized connectivity

Samsung ED Series (EDC) displays use energy-saving d-led BLU technology, and deliver extraordinary picture quality and sharp text for superb readability.

## Reduce energy costs with efficient d-led BLU technology

ED Series (EDC) signage displays require less wattage to operate than CCFL LFDs, translating into lower electricity costs. The displays emit less heat, reducing in-room temperatures for decreased cooling costs. A lower operating temperature also helps increase the screen's durability. In addition, carbon dioxide (CO<sub>2</sub>) emissions are reduced, resulting in a smaller carbon footprint.

## Discover the advantages of EDC LFDs over televisions

ED Series (EDC) displays are ideal for businesses that have basic digital signage needs or already have a digital signage infrastructure and only need displays. In addition, implementing Samsung d-led BLU displays has significant advantages versus using TVs.



Figure 1. Samsung LED backlight technology uses less power for optimal energy efficiency.

## High reliability

The quality assurance test standards are stricter for digital signage than for TVs. LFDs are rigorously tested under various environmental conditions, such as accelerated lifetime (ALT), longtime lifecycle, dust testing, and power on and off surge stimulation.

## Optimized connectivity interface

The connectivity interface includes D-subminiature (D-sub) and High-Definition Multimedia Interface® (HDMI®). These optimized interfaces provide users with a simplified way to connect the ED Series (EDC) displays to the digital signage network based on individual needs.

## Landscape or portrait display with a pivot function

ED Series (EDC) displays can be installed horizontally or vertically for greater flexibility. A pivot function rotates the screen 90 degrees for added versatility.



Figure 2. Samsung ED Series (EDC) deliver high-definition images with easier connectivity.

## Access a wide choice of digital content with upgraded connectivity

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### Simplify connectivity for remote content access

ED Series (EDC) signage offers upgraded connectivity with access to digital content through an RS-232C connection. Access to a broader range of digital content provides a more engaging viewer experience. Users can connect to PCs and other compatible devices to display the content that is most relevant to an audience.

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Samsung d-led BLU digital displays offer higher reliability, remote control of multiple units and connection options not available with conventional televisions.

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### Features and benefits

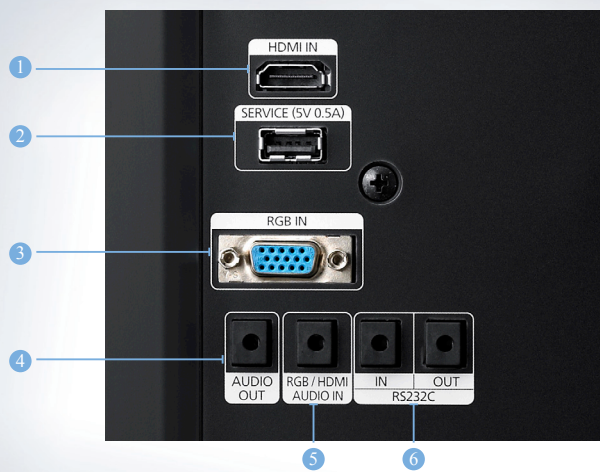
Features	Benefits
Slim LED design and Ultra Clear Panel	Delivers distraction-free messaging with sharp, high-resolution images and text, reduced light scatter and reflection, a thin profile and narrow bezels
d-led BLU technology	Uses less energy, emits less heat and carbon dioxide and reduces environmental impacts
MDC	Enables easier control of multiple displays and content
Pivot function	Provides the flexibility of landscape or portrait orientation
Upgraded connectivity	Enables access to a broad range of digital content

## EDC

32" / 40" / 46" / 55"



### Connectors



1. HDMI IN
2. SERVICE (5V 0.5A)
3. RGB IN
4. AUDIO OUT
5. RGB / HDMI AUDIO IN
6. RS232C (IN / OUT)

# Samsung EDC Series Signage Display

## Specifications

		ED32C	ED40C	ED46C	ED55C
Panel	Diagonal size	32 in.	40 in.	46 in.	55 in.
	Type	60 Hz LED BLU			120 Hz LED BLU
	Resolution	1,366 x 768 (16:9)	1,920 x 1,080 (16:9)	1,920 x 1,080 (16:9)	1,920 x 1,080 (16:9)
	Pixel pitch (H x V)	0.170 mm (H) x 0.511 mm (V) (0.01 in. x 0.02 in.)	0.154 mm (H) x 0.46 mm (V) (0.01 in. x 0.02 in.)	0.177 mm (H) x 0.53 mm (V) (0.01 in. x 0.02 in.)	0.210 mm (H) x 0.630 mm (V) (0.01 in. x 0.02 in.)
	Active display area (H x V)	697.68 mm (H) x 392.26 mm (V) (27.47 in. x 15.44 in.)	885.6 mm (H) x 498.15 mm (V) (34.87 in. x 19.61 in.)	1,018.08 mm (H) x 572.67 mm (V) (40.02 in. x 22.55 in.)	1,209.6 mm (H) x 680.4 mm (V) (47.62 in. x 26.79 in.)
	Brightness	330 nit	350 nit	350 nit	350 nit
	Contrast ratio	4,000:1	5,000:1	5,000:1	5,000:1
	Viewing angle (H/V)	178/178			
	Response time (G-to-G)	8 ms			8 ms
	Display colors	16.7 M	10 bit dithering - 1.07 billion	10 bit dithering - 1.07 billion	16.7 M
	Color gamut	70%			
	Display	Dynamic C/R	50,000:1 (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		
		Video	HDMI		
		Audio	Stereo mini jack		
	Output	Audio	Stereo mini jack		
	External control	RS-232C (in/out) through stereo jack			
	External sensor	N/A			

# Samsung EDC Series Signage Display

## Specifications

		ED32C	ED40C	ED46C	ED55C	
Power	Type	Internal				
	Power supply	AC 100 - 240 V ~ (+/- 10%), 50/60 Hz				
	Power consumption	Max (W/h)	77	110	121	165
		Typical (W/h)	47	76	88	120
		BTU (max)	262.57	375.1	412.61	562.65
		Sleep mode	Less than 0.5 W			
Off mode	Less than 0.5 W					
Operation	Operating temperature	0°C - 40°C (32°F - 104°F)				
	Humidity	10-80%				
Feature	Key	LED LFD				
	Special	Built-in speaker (10 W + 10 W), PIP/PBP, narrow bezel, light weight, RS-232C in/out 1 D-sub and 1 HDMI, no function key				
Certification	Safety	EN60950-1				
	EMC	Class A				
	Environment	ENERGY STAR® 5.0 (USA)				
Accessories	Included	Quick Setup Guide, warranty card, D-sub cable, power cord, remote controller, batteries				
	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)		

# Samsung EDC Series Signage Display

## Specifications

			ED32C	ED40C	ED46C	ED55C
Mechanical specifications	Dimension	Set	736 mm x 434.5 mm x 93.7 mm (28.98 in. x 17.11 in. x 3.69 in.)	925.4 mm x 541 mm x 93.6 mm (36.43 in. x 21.3 in. x 3.69 in.)	1,057.7 mm x 615.8 mm x 94.8 mm (41.64 in. x 24.24 in. x 3.73 in.)	1,247.7 mm x 722.9 mm x 94.8mm (49.12 in. x 28.46 in. x 3.73 in.)
		Package	826 mm x 530 mm x 162 mm (32.52 in. x 20.87 in. x 6.38 in.)	1,005 mm x 615 mm x 151 mm (39.57 in. x 24.21 in. x 5.94 in.)	1,154 mm x 723 mm x 165 mm (45.43 in. x 28.47 in. x 6.5 in.)	1,381 mm x 838 mm x 170 mm (54.37 in. x 32.99 in. x 6.69 in.)
	Weight	Set	6 kg (13.23 lb)	9.3 kg (20.5 lb)	11.9 kg (26.24 lb)	18.3 kg (40.35 lb)
		Package	7.6 kg (16.76 lb)	11.4 kg (25.13 lb)	14.6 kg (32.19 lb)	23.4 kg (51.59 lb)
	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 (15.75 in. x 15.75 in.)	400 mm x 400 mm (15.75 in. x 15.75 in.)
	Stand type		Foot stand (optional)			
	Media player option type		N/A			
	Bezel width		Side 16.3 mm (0.64 in.), bottom 20.4 mm (0.8 in.)	Side 17.4 mm (0.69 in.), bottom 20.4 mm (0.8 in.)	Side 17.4 mm (0.69 in.), bottom 20.8 mm (0.82 in.)	Side 17 mm (0.67 in.), bottom 21.5 (0.85 in.)
Media player	CPU					
	N/B					
	S/B					
	GPU					
	FDM/HDD					
	Memory		N/A			
	Ethernet					
	Connectivity	USB				
		Output				
Others						

## Legal and additional information

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### For more information

For more information about Samsung LED LFD ED Series (EDC), visit [www.samsung.com/business](http://www.samsung.com/business).



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