

Samsung EDD Series displays

High-definition displays in a variety of sizes and connection types for an immersive viewing experience



Highlights

- Minimize acquisition and operational costs through simplified installation and maintenance due to embedded components
- Connect to a variety of sources including: D-subminiature (D-sub), High-Definition Multimedia Interface® (HDMI®), Digital Visual Interface (DVI) and Component (CVBS Common)
- Increase space efficiency and easily create an uncluttered viewing environment through the half-embedded PIM*
- Enhance the effectiveness of information by delivering interactive content on a touch screen*

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 and operating costs while lowering total cost of operation. In addition, companies want the flexibility to customize content to suit individual needs. IT managers seek a selection of display sizes and a simplified way to manage multiple displays with a range of connectivity choices. Companies also want to increase the effectiveness of information delivery by presenting interactive content on a touch screen.

Samsung EDD Series displays provide high-quality imagery and low power consumption for reduced operating costs. The ability to connect to a variety of input source devices including D-Sub, HDMI, Component (CVBS Common) and DVI offers superior flexibility.

The displays' slim, lightweight design and half-embedded PIM* enable space efficiency and economical installation for reduced startup costs. Ultra Clear Panel and thin bezels enhance the viewer experience. EDD Series displays also offer an optional interactive touch screen* to enhance content delivery. The displays are available in a variety of sizes from 32 in. to 75 in. to suit a broad range of display needs.

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

With Samsung LED BLU technology, EDD Series displays deliver superior picture quality, realistic color and richer black hues. Ultra Clear Panel enhances readability with sharper, more detailed images and crisper text with reduced light scatter and reflection. The LED BLU technology also enables a slim, easy-to-handle design with weights ranging from as little as 6 kg (13.23 lb.) to a maximum of only 28.8 kg (63.48 lb.).

EDD Series displays feature Auto Rotation, which allows installation in both landscape and portrait modes for optimal placement flexibility. An ultra-slim bezel design offers an aesthetic look and enables the viewer to focus on the message rather than the device delivering it.

*Available in 65-in. and 75-in. models only.

Gain flexibility with expanded connectivity options and discover advantages over conventional televisions



Figure 1. Flexibility of source device compatibility with expansive connectivity options

Choose from an expansive range of connectivity options for an even greater variety of source devices

The improved connectivity interface includes: D-sub, HDMI, DVI and Component (CVBS Common) to support any type of source input device. These optimized interfaces provide users with a simplified way to connect the EDD Series displays to the digital signage network based on individual needs. The DVI and Component (CVBS Common) connectors, which are major new enhancements of the EDD Series displays, offer increased connection flexibility when compared to the predecessor, Samsung EDC Series displays.

EDD Series displays offer 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.

Discover the advantages of EDD LFDs over television

EDD Series 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 LED BLU displays have significant advantages versus using TVs.

High reliability

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

Landscape or portrait display with a pivot function

EDD Series displays can be installed horizontally or vertically for greater flexibility. A pivot function rotates the screen 90 degrees for added versatility. This ability to not only pivot and change positions yet have unaffected display performance goes far beyond the capabilities of conventional TVs.

Samsung EDD Series displays use LED BLU technology, and deliver extraordinary picture quality and sharp text for superb readability



Figure 2. Samsung EDD Series deliver high-definition images with easier connectivity

Provide engaging, interactive content delivery with an optional Touch Overlay

Create an efficient, streamlined viewing environment with the half-embedded PIM

Businesses can increase space efficiency and easily create an uncluttered viewing environment with the half-embedded PIM (available in 65-in. and 75-in. models only). The optional slim PC offers several benefits:

- No additional power cord is required. The PIM or other compatible devices can connect directly to the display without the need for cables.
- Because the PIM follows the OPS standard, it provides compatibility options for various vendors. This capability enables devices from other vendors that support OPS to be connected to the LFD.

Provide an immersive, interactive experience while protecting the display surface

An optional Touch Overlay (available in 65-in. and 75in. models only) increases content delivery effectiveness by adding interactivity. Ideal for Retail, Transportation, Office, Exhibition and Educational environments, the optional Touch Overlay provides a realistic multi-touch experience with up to six enabled simultaneous touch points. Unlike traditional infrared (IR) sensors that use vertical and horizontal sensing, the arc-like IR covers every corner of the surface, eliminating any dead spots.

The accessory is easily installed by simply placing the overlay on the LFD screen and tightening a few screws. The optional Touch Overlay accessory also protects the LFD, with its 2.8 mm (0.11 in.) thickness that prevents damage from external elements such as dust.

Select the optimal LFD from a variety of sizes

Businesses can choose the best-suited LFD for their display needs from a broad range of product sizes (from 32 in. to 75 in.). For example:

- Small SMB stores with limited space can opt for a small, economical 32-in. displays and still reap the benefits of dynamic digital signage.
- High-end fashion retail shops can opt for 65 in.-75 in. displays to deliver more impactful messages and life-size model images to showcase products.

Features and benefits

	Benefits
Narrow bezel, lightweight, Full HD	Delivers distraction-free messaging with sharp, high-resolution images and text, reduced light scatter and reflection, a thin profile and narrow bezels
Improved connectivity	Enables access to a broad range of digital content
Optional slim PC (half embedded PIM)	Increases space efficiency and enables users to easily create an uncluttered viewing environment (65-in. and 75-in. models only)
Touch Overlay option	Enhances the effectiveness of information by delivering interactive content on a touchscreen (65-in. and 75-in. models only)

Samsung EDD Series displays offer greater connectivity options and a wide selection of sizes to create an enhanced viewing experience for any display environment

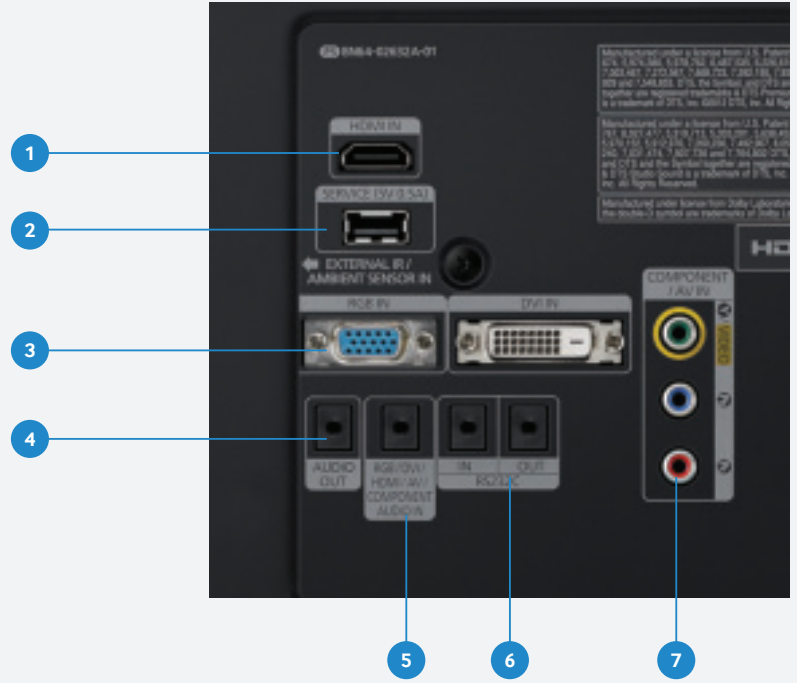
Samsung EDD Series displays

EDD

32" / 40" / 46" / 55" / 65" / 75"



Connectors



- | | | |
|----------------------|---------------------------|----------------------|
| 1. HDMI IN | 4. AUDIO OUT | 6. RS232C (IN / OUT) |
| 2. SERVICE (SV 0.5A) | 5. RGB / HDMI
AUDIO IN | 7. COMPONENT / AV IN |
| 3. RGB IN | | |

Samsung EDD Series displays

Specifications

		ED32D	ED40D	ED46D	ED55D	ED65D	ED75D	
Panel	Diagonal size	32"	40"	46"	55"	65"	75"	
	Type	60 Hz LED BLU			120 Hz LED BLU	60 Hz LED BLU	120 Hz LED BLU	
	Resolution	1,366 x 768 (16:9)			1,920 x 1,080 (16:9)			
	Pixel pitch (mm/in.)	0.17025 x 0.51075 0.00670 x 0.02010	0.15375 x 0.46125 0.00605 x 0.01815	0.17675 x 0.53025 0.00695 x 0.02087	0.21 x 0.63 0.008 x 0.024	0.248 x 0.744 0.009 x 0.029	0.2865 x 0.8595 0.0112 x 0.0338	
	Active display area (mm/in.)	697.68 x 392.25 27.46 x 15.44	885.6 x 498.1 34.8 x 19.6	1018.08 x 572.67 40.08 x 22.54	1209.6 x 680.4 47.6 x 26.7	1428.48 x 803.52 56.2 x 31.6	1650.24 x 928.26 64.9 x 36.5	
	Brightness(Typ.)	330 nit	350 nit			400 nit	320 nit	
	Contrast ratio	4,000 : 1	5,000 : 1			4,000 : 1		
	Viewing angle (H/V)	178 : 178						
	Response time (G-to-G)	8 ms				6.5 ms	8 ms	
	Display colors	16.7 M	10bit Dithering -1.07Billion		16.7 M	10bit Dithering -1.07Billion		
	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, DVI-D					
		Video	CVBS, Component, HDMI					
		Audio	Stereo mini jack					
	Output	Audio	N/A					
		Video	N/A					
		Audio	Stereo mini jack					
		Power Out	N/A					
	External control	RS-232C (in/out) thru stereo jack						
External sensor	N/A				Yes			
Power	Type	Internal						
	Power supply	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz						
	Power consumption	Max (W/h)	77	110	121	165	290	360
		Typical (W/h)	47	76	88	120	180	247
		BTU (Max)	262.57	375.1	412.61	562.65	988.9	1,227.6
		Sleep mode	Less than 0.5 W				Less than 1 W	
Off mode		Less than 0.5 W				Less than 1 W		

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Dimension (mm/in.)	Set	736 x 434.5 x 93.7 28.9 x 17.1 x 3.6	925.4 x 541.0 x 93.6 36.4 x 21.2 x 3.6	1,057.7 x 615.8 x 94.8 41.6 x 24.2 x 3.7	1,247.7 x 722.9 x 94.8 49.1 x 28.4 x 3.7	1,467.4 x 848.0 x 64.9 57.7 x 33.3 x 2.5	1,675.0 x 959.1 x 64.8 65.9 x 37.7 x 2.5
	Package	826 x 530 x 162 32.5 x 20.9 x 6.3	1,005 x 615 x 151 39.5 x 24.2 x 5.9	1,154 x 723 x 165 45.4 x 28.4 x 6.4	1,381 x 838 x 170 54.3 x 32.9 x 6.6	1,625 x 955 x 237 63.9 x 37.5 x 9.3	1,853 x 1100 x 488 72.9 x 43.3 x 19.2
Weight (kg/lb)	Set	6.0 / 13.2	9.3 / 20.5	11.9 / 26.2	18.3 / 40.3	26.8 / 59.0	28.8 / 63.4
	Package	7.6 / 16.7	11.4 / 25.1	14.6 / 32.1	23.4 / 51.5	39.1 / 86.1	47.9 / 105.6
Mechanical specs	VESA mount (mm/in.)	200 x 200 7.8 x 7.8			400 x 400 15.7 x 15.7		
	Protection Glass	N/A					
	Stand type	Foot Stand (Optional)					
	Media player option type	N/A				PIM	
Bezel width (mm/in.)		16.3 / 0.64 (Top,Side)	17.4 / 0.68 (Top,Side)	17.4 / 0.68 (Top,Side)	17.0 / 0.66 (Top,Side)	18.0 / 0.70 (Top,Side)	10.9 / 0.42 (Top,Side)
		20.4 / 0.80 (Bottom)	20.4 / 0.80 (Bottom)	20.8 / 0.81 (Bottom)	21.5 / 0.84 (Bottom)	23.5 / 0.92 (Bottom)	16.9 / 0.66 (Bottom)
Operation	Recommended Usage Hours	16hrs/day					
	Operating Temperature	0°C - 40°C					
	Humidity	10 ~ 80%					
Key	LED LFD						
Special	Built in Speaker (10 W + 10 W), PIP/PBP, Narrow Bezel, Light Weight, RS-232 In/Out 1 D-Sub & 1 HDMI, No function key				Built in Speaker (10 W + 10 W), PIP/PBP, Narrow Bezel, Light Weight, RS232 In/Out 1 D-Sub & 1 HDMI		
Feature	Processor	N/A					
	On-Chip Cache Memory	N/A					
	Clock Speed	N/A					
	Main Memory Interface	N/A					
	Graphics	N/A					
	Storage (FDM)	N/A					
	Multimedia	N/A					
	Host Bus	N/A					
	IO Ports	N/A					
	Operating System	N/A					

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Certification	Safety	EN60950-1						
	EMC	Class A						
	Environment	ENERGY STAR 6.0 (USA)				N/A		
Accessories	Included	Quick Setup Guide, Warranty Card, D-Sub cable, Power Cord, Remote Controller, Batteries						
	Optional	Stand	STN-L32D, STN-L3240E		STN-L4055AD, STN-L4655E		STN-L4055AD	STN-L75E
		Mount	WMN4070SD WMN250MD				WMN4675MD	
		Specialty	CML400D (Ceiling Mount)		CML450D (Ceiling Mount)			
Media Player	CPU	N/A						
	N/B							
	S/B							
	GPU							
	FDM/HDD							
	Memory							
	Ethernet							
	Connectivity							USB
								Output
Others								
						PIM HDBT Supported		

Legal and additional information

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For more information

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