

Samsung PEC Series Premium Signage Displays

Convenient, cost-effective displays for consistent, high-quality image presentation



Highlights

- Broadcast messages efficiently in many display environments with a 44-percent haze level and 700-nit brightness
- Display a variety of media types with convenient features, such as MagicInfo™ Premium S Player
- Customize rich, interactive content with the optional Samsung Plug-in Module (PIM)
- Conserve resources with straightforward installation

Distribute important, ongoing messages with durable, uncomplicated displays

Many businesses have recognized the value of digital messaging in broadcasting key information to customers. To optimize the benefits of this medium, visual displays must meet certain criteria. Business owners and managers require displays that can consistently broadcast content 24x7. In addition, the displays and content control must be straightforward to use, and costs must be contained to meet ever-shrinking company budgets.

Samsung PEC Series Premium Signage Displays meet these criteria for businesses that want to employ the advantages of digital signage. PEC Series large format displays (LFDs) provide high-quality images for extended periods of time. Businesses can communicate messages when customers are most likely to see them.

Samsung offers several content and display control tools, including the Samsung Smart Signage Platform (SSSP) and MagicInfo™ software. These tools offer additional media player options and help companies efficiently design and promote key information. Displays can be enhanced with an optional PIM to access a range of content.

With PEC Series displays, businesses can decrease expenses with solid construction, simplified installation and efficient operation.

Present key business information with a consistent viewing experience

PEC Series displays deliver vibrant, realistic images, and a glare-proof surface enhances viewing by making images easier to see. A haze level of 44 percent and brightness at the 700-nit level provide efficient message delivery in various lighting environments. Business content is optimized with a slim bezel and energy-efficient edge-type LED technology, which yields a much thinner screen. These features decrease viewer distraction and promote attention to vital content.

Convenient features help optimize time, costs and space

Show content from myriad sources with convenient interface options

Several built-in solutions help users create, manage and display content.

Samsung Smart Signage Platform

S SSP eliminates the need to purchase, install or use an external PC or media player. The included MagicInfo™ Premium S Player and MagicInfo™ Lite applications perform the media player functions.

MagicInfo™ Lite and MagicInfo™ Premium S Player

MagicInfo™ Lite software includes a straightforward GUI, which can be deployed to create high-quality video display content. The software supports:

- Automatic content play from USB or internal 6 GB memory
- Smart and local scheduling
- Centralized control through a Multiple Display Control (MDC) feature and the MagicInfo™ Lite server
- Ethernet connectivity through an RS-232C connection for remote control capabilities

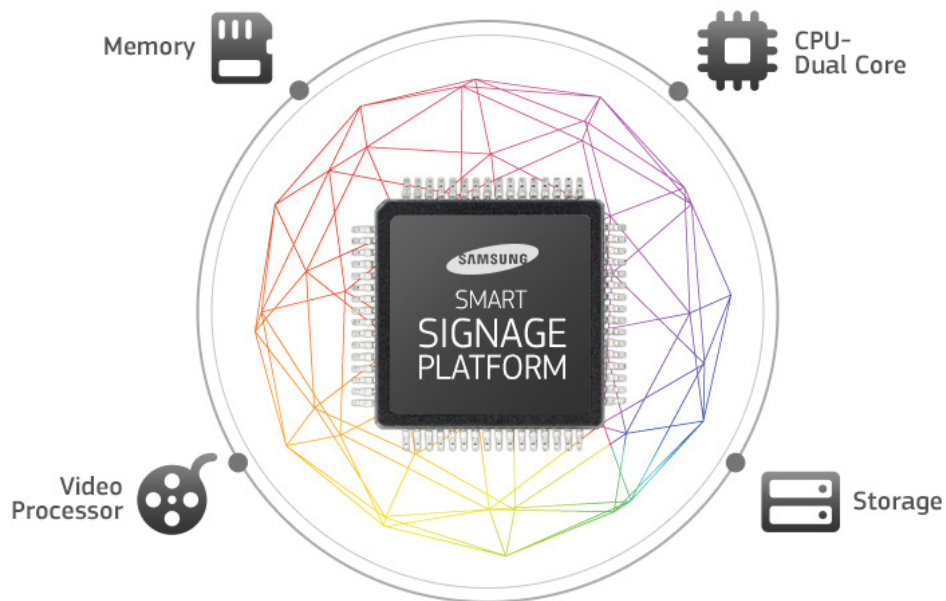


Figure 1. An integrated solution to provide a new digital signage experience

Accessible control for single or multiple displays

The ability to efficiently schedule, play and update content with Samsung MagicInfo™ Lite software conserves company resources and lowers operational expenses. The Local Schedule Manager provides a direct way to select storage, time period and content options that control how and when the content is displayed. Selecting and scheduling automatic content play is designed for ease of use, enabling employees to produce effective, polished display results more readily.

The embedded MagicInfo™ Premium S Player enables content managers to create, schedule and play standalone content. With this application, users can perform basic network management tasks.

Auto Source Switching

Auto Source Switching helps users maintain virtually constant and seamless content display. This feature automatically changes the display from one content source to another when an original source fails. Source recovery enables a content source to be used as a backup for ongoing play when another source is unavailable. This feature helps ensure that business content remains available.



Figure 2. Create, display and manage. All with simple, effortless steps

Multiple tools for convenient content management

Expand content possibilities with the optional PIM

PEC Series displays offer content type support not possible with embedded solutions. With the optional PIM, businesses can deploy customized, rich, interactive content.

The PIM uses Intel® Open Pluggable Specification (OPS) connectivity to enable power and video source delivery through a single cable. No additional power cord is needed, because the PIM eliminates the need for an external PC. The module reduces clutter while retaining a slim design.

Users can choose from among three PIM models:

- Dual core, 2 GB RAM, with Microsoft® Windows® Embedded Standard 7 (WES7)
- Quad core, 4 GB RAM, with WES7
- Quad core, 4 GB RAM, 128 GB solid state drive (SSD) with Windows 7 Professional installed

Lessen employee time and effort with convenient installation features

Unlike traditional projectors and screens, PEC Series displays can be installed efficiently with no special equipment. The displays weigh as little as 13.5 kg (29.76 lb) and feature a depth of just 35.1 mm (1.38 in.). In addition, the displays offer powerful connectivity, with built-in RJ45 and RS-232C connections. Using a Digital Visual Interface loop out, a single display image can be shared with nearby displays.

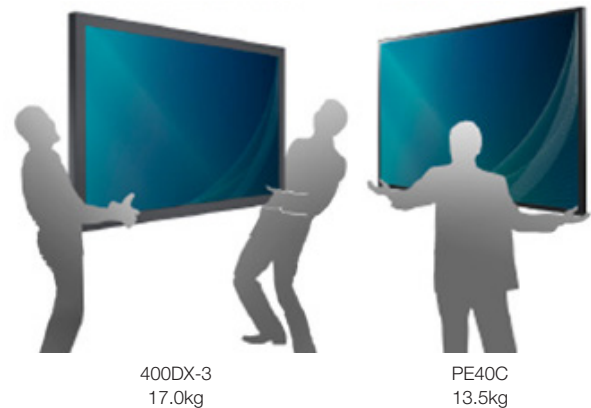


Figure 3. Lightweight design for easier installation

Samsung PEC Series Premium Signage Displays

PEC

40" / 46" / 55"



Connectors



- | | | |
|--|------------|------------------------|
| 1. RS232C IN | 6. USB | 11. DP OUT |
| 2. RS232C OUT | 7. USB | 12. ANT IN |
| 3. IR / AMBIENT SENSOR IN | 8. DP IN | 13. RGB IN |
| 4. AUDIO OUT | 9. HDMI IN | 14. COMPONENT IN / OUT |
| 5. RGB / DVI / HDMI / AV /
COMPONENT / AUDIO IN | 10. DVI IN | 15. RJ45 |

Samsung PEC Series Premium Signage Displays

Specifications

		PE40C	PE46C	PE55C	
Panel	Diagonal size	40 in.	46 in.	55 in.	
	Type	60 Hz LED BLU			
	Resolution	1,920 x 1,080 (16:9)			
	Pixel pitch (H x V)	0.15 mm x 0.46 mm (0.01 in. x 0.02 in.)	0.18 mm x 0.53 mm (0.01 in. x 0.02 in.)	0.21 mm x 0.63 mm (0.01 in. x 0.02 in.)	
	Active display area (H x V)	885.6 mm x 498.15 mm (34.87 in. x 19.61 in.)	1,018.08 mm x 572.67 mm (40.08 in. x 22.55 in.)	1,209.6 mm x 680.4 mm (47.62 in. x 26.79 in.)	
	Brightness (typ)	700 nits			
	Contrast ratio	4,000:1			
	Viewing angle (H/V)	178:178			
	Response time (G-to-G)	8 ms			
	Display colors	16.7 M			
	Color gamut	70%			
Display	Dynamic C/R	10,000:1			
	H-Scanning frequency	30 – 81 kHz			
	V-Scanning frequency	56 - 75 Hz			
	Maximum pixel frequency	148.5 MHz			
Connectivity	Input	RGB	D-sub, DVI-D, DisplayPort (1.2)		
		Video	Component (CVBS common), High-Definition Multimedia Interface® (HDMI®)		
		Audio	Stereo mini jack		
	Output	RGB	DP1.2 (loop out)		
		Audio	Stereo mini jack		
	External control	RS-232C (in/out) through stereo 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)	165	187	209
		Typical (W/h)	114	131	149
		BTU (max)	562.65	637.67	712.69
		Sleep mode	Less than 1 W (with Ethernet)		
Off mode	Less than 1 W (with Ethernet)				
Mechanical specs	Dimension	Set	919.6 mm x 532.0 mm x 35.1 mm (36.20 in. x 20.94 in. x 1.38 in.)	1,054.5 mm x 608.5 mm x 35.1 mm (41.52 in. x 23.96 in. x 1.38 in.)	1,249.5 mm x 721.0 mm x 35.1 mm (49.19 in. x 28.39 in. x 1.38 in.)
		Package	985.0 mm x 634.0 mm x 135.0 mm (38.78 in. x 24.96 in. x 5.31 in.)	1,141.0 mm x 719.0 mm x 140.0 mm (44.92 in. x 28.31 in. x 5.51 in.)	1,374.0 mm x 838.0 mm x 165.0 mm (54.09 in. x 32.99 in. x 6.50 in.)
	Weight	Set	13.5 kg (29.76 lb)	16.4 kg (36.16 lb)	20.5 kg (45.19 lb)
		Package	16.1 kg (35.49 lb)	20.1 kg (44.31 lb)	25.8 kg (56.88 lb)
	VESA mount	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	Embedded			
	Bezel width	13.5 mm, bottom 14.4 mm (0.53 in., bottom .57 in.)	14.6 mm, bottom 15.4 mm (0.57 in., bottom 0.61 in.)	16.5 mm, bottom 17.1 mm (0.65 in., bottom 0.67 in.)	

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		PE40C	PE46C	PE55C	
Operation	Operating temperature	0°C - 40°C (0°F - 104°F)			
	Humidity	10 - 80%			
Accessories	Included	Quick setup guide, warranty card, application CD, power cord, D-sub cable, remote controller, batteries			
	Optional	Stand	STN-L4055AD		
		Mount	WMN4070SD WMN250MD	WMN4270SD WMN250MD	WMN4270SD WMN250MD
Specialty	CML 400D (ceiling mount)	CML 450D (ceiling mount)	CML 450D (ceiling mount)		
Media player		PIM (optional)			
Feature	Key	Professional heavy usage LED LFD			
	Internal player	Processor	ARM® 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 dual		
		Main memory interface	1 GB DDR3 Dual 32-bit DDR3-667 (1333 MHz)		
		Graphics	2-D and 3-D graphics engine Up to 1,920 x 1,080, 32 bpp Supports OpenGL® ES		
		Storage (FDM)	8 GB (2.0 GB occupied by O/S, 6 GB available)		
		Multimedia	Video decoder MPEG-1/2, H.264/AVC (dual) VC-1, JPEG, PNG Audio DSP (decoder) AC3 (DD), MPEG, DTS and so on		
		IO ports	USB 2.0 x 2 ea.		
		Operating system	Linux®		

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For more information

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