Samsung DBD Series displays

Robust, economical LFDs with easy content management, flexible connectivity and high performance

Highlights

- Balance optimal performance and cost-efficiency in a sleek, advanced LED large format display (LFD)
- Leverage the power and capacity of 2nd Generation SSSP, which includes powerful quad-core SoC and eliminates the need for an additional PC unit
- Unclutter and simplify LFD configuration, wireless content distribution and display control with optional Wi-Fi dongle
- Control various display operations easily with the new Home screen user interface (UI)
- Maintain uniform ambience and optimize the display investment by choosing an economical DBD Series display that features the same design and form factor as higher-performance models, but at a lower cost

Present distinctive messaging and reduce costs with powerful, streamlined LFD displays

Business managers want to provide distinctive messaging with high-quality digital signage in a variety of environments. Businesses also need ways to reduce costs, including the purchase of additional PC modules.

Samsung DBD Series displays offer an economical solution with flexibility that allows businesses to choose the optimal LFD. Bright, 350-nit DBD Series displays are easy to control and install, for a wireless, uncluttered display configuration without a separate PC unit. A new, quad-core processor inside the powerful 2nd Generation SSSP provides a winning combination of performance and innovation.

Get more power, capacity and capability with 2nd Generation SSSP

DBD Series displays leverage Samsung's new 2nd Generation SSSP with quad-core embedded System on Chip (SoC) to boost power and functionality. 2nd Generation SSSP has twice the processing speed of dual-core displays with a 1GHz quad-core CPU and 1.5 GB double data rate (DDR3) dual 48-bit memory. The DBD Series displays' integrated platform for digital signage eliminates the need for external media players and additional PC units, streamlining the deployment process for time and resource savings. SSSP-enabled DBD Series displays also offer a picture-in-picture (PIP) size over 50 percent of the display, compared to less than 50 percent in dual-core displays.

Figure 1. A standalone DBD Series display as a promotional advertising board

THE NEW BUSINESS EXPERIENCE

SAMSUNG

Select the display size best suited to the environment for the optimal ambient effect

Combine a sleek design with cost-efficiency in a bright, clear LFD

A new LFD design in DBD Series displays features a sleek form factor with depth as thin as 49.9 mm (1.96 in.) and bezel as slim as 9.5 mm (0.37 in.) making the displays well-suited for both single and video wall configurations.

Streamline digital signage configuration by reducing clutter and eliminating the need for an additional PC

Unclutter and simplify LFD configuration, wireless content distribution and display control with advanced embedded content management solution provided by 2nd Generation SSSP.

DBD Series displays provide PC-less content playback and network connectivity (with an optional Wi-Fi dongle)* so it is easier than ever to manage and display business content. Internal Auto Play also streamlines content management by enabling users to simply plug in a USB to distribute and sync the media throughout. This feature eliminates the need for a separate PC for each display, reducing clutter.

Simplify content and display control with Wi-Fi option and mobile app

With a convenient Wi-Fi dongle option, users can control the LFD and wirelessly distribute content to the display using mobile devices for convenient content management. The ability to send and schedule content to a LFD from a mobile device, instead of locating a PC that is connected to the LFD or finding suitable cable connections, simplifies display management.

Easily operate the display with an enhanced Home UI that offers intuitive usage

The new DBD Series touch-friendly Home UI delivers simplified, intuitive display operation for user convenience. Main DBD functions are conveniently available on the Home screen, without having to go through multiple submenus, and represented with large menu buttons, for ease of use. The UI features a new matrix design, which is touch-friendly, enabling touch interaction of various display operations when the optional Touch Overlay is added. A selection of menu configurations are also easily accessible on the Home screen.

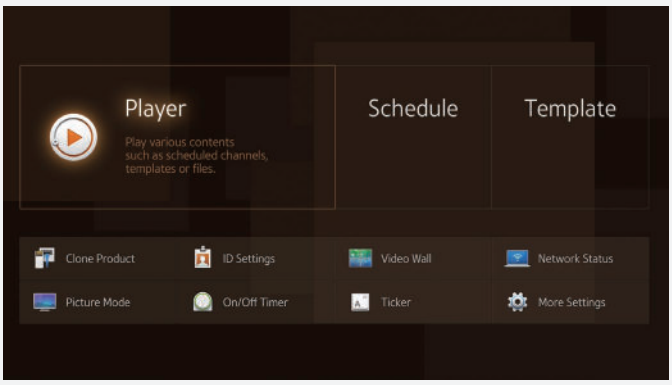


Figure 2. LFD dedicated Home UI design

Provide an engaging interactive experience while protecting the display surface

Enabled by the new SoC technology, an optional PC-less Touch Overlay increases content delivery effectiveness by adding interactivity. Ideal for retail, transportation, office and educational environments, the optional Touch Overlay enables the display to be used as a simple, space-saving e-board solution without the need for an external PC. The overlay provides a realistic multi-touch experience with up to six 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. Touch Overlay is compatible across DBD, DMD and DHD models for added versatility.

Figure 3. An uncluttered, PC-less LFD configuration in a limited-space application

Display business messaging more effectively with slim, powerful LFDs

Select the optimal LFD from a variety of sizes and bezel options in same form factor for uniform ambiance

Optimize the display investment and promote a consistent ambiance by choosing the most suitable display model from multi-level performance options in the same form factor. The same form factor between the DBD, DMD and DHD Series displays enables compatibility of optional parts, such as Touch Overlay and attachable bezel color options. This compatibility gives businesses the flexibility to choose the right display performance, size and impact for their specific needs, along with all the available options for optimal TCO.

All DBD Series displays feature a new LFD design with a slim bezel and tag-style logo. Businesses can choose the best-suited LFD for their display needs from a broad range of product sizes (32 in., 40 in., 48in., 55in.). For example:

- Small SMB retail stores with limited space can opt for a small, economical 32-inch display and still reap the benefits of dynamic digital signage.
- Transportation businesses can select larger 55-inch displays to deliver real-time transit information more visibly, even from a distance.

In addition to size selections, businesses can also tailor the LFD to the display environment with an attachable color bezel option, available in matte black, white, wood finish and titanium designs.

Features and benefits

	Benefits
Slim design, full 350-nit full high definition (FHD) with narrow bezel	Delivers distraction-free messaging with sharp, high-resolution images and text, reduced light scatter and reflection, a thin profile and narrow bezels
2nd Generation SSSP	Offers upgraded performance that enables integration for more convenient digital signage capabilities
New Home UI with large buttons and convenient controls	Simplifies usage and makes operation easier for the user
Optional Wi-Fi dongle	Streamlines LFD configuration, wireless content distribution and display control
Touch Overlay option	Enhances the effectiveness of information by delivering interactive content on a touchscreen

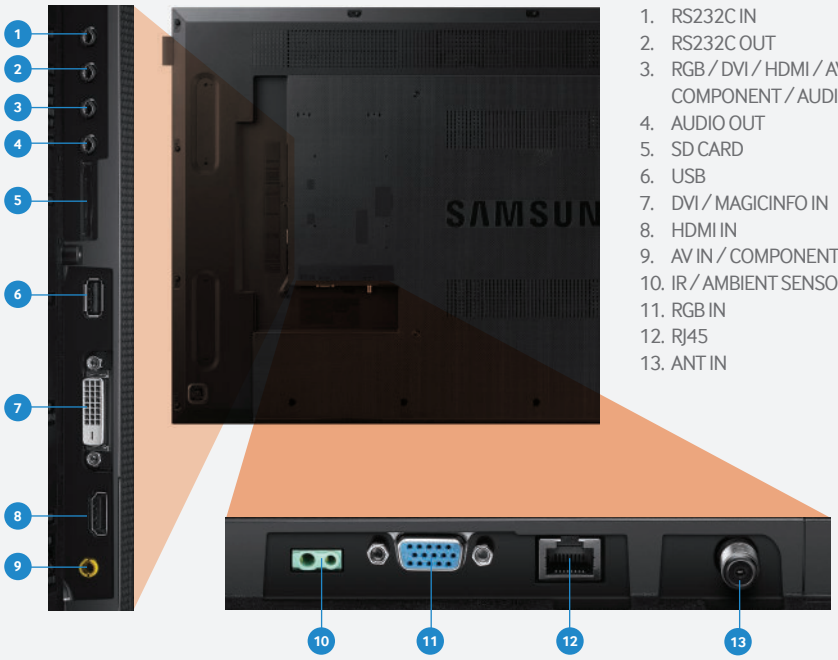
Samsung DBD Series displays offer a slim, sleek design and a wide selection of models to create an enhanced viewing experience for business display environments

Samsung DBD Series displays

DBD

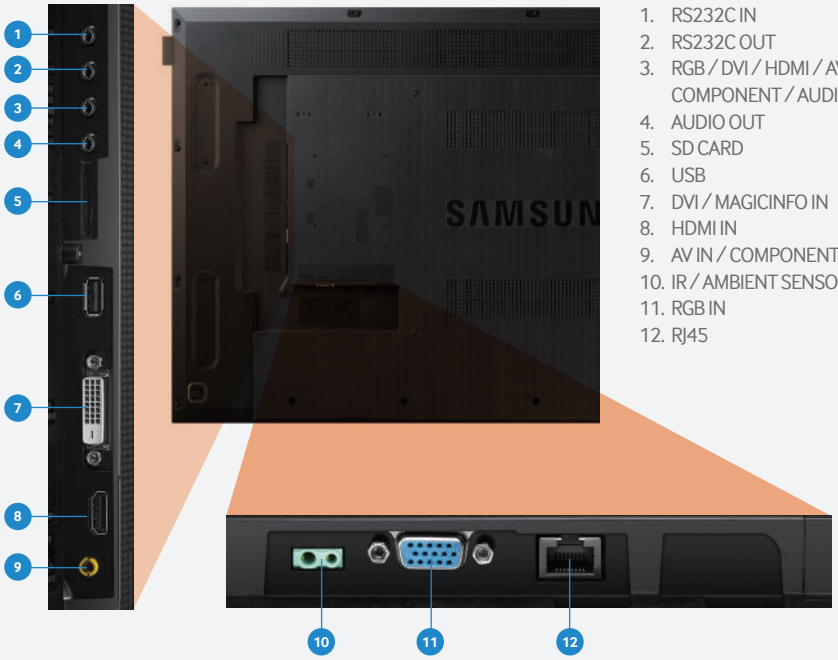
32" / 40" / 48" / 55"

Connectors (North America/Korea)



1. RS232C IN
2. RS232C OUT
3. RGB / DVI / HDMI / AV / COMPONENT / AUDIO IN
4. AUDIO OUT
5. SD CARD
6. USB
7. DVI / MAGICINFO IN
8. HDMI IN
9. AV IN / COMPONENT IN
10. IR / AMBIENT SENSOR IN
11. RGB IN
12. RJ45
13. ANT IN

Connectors (Global)



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7. DVI / MAGICINFO IN
8. HDMI IN
9. AV IN / COMPONENT IN
10. IR / AMBIENT SENSOR IN
11. RGB IN
12. RJ45

Samsung DBD Series displays

Specifications

			DB32D	DB40D	DB48D	DB55D
Panel	Diagonal size		32"	40"	48"	55"
	Type		60 Hz D-LED BLU			
	Resolution		1,920 x 1,080 (16:9)			
	Pixel pitch (mm/in.)		0.12125 x 0.36375 (0.00477 x 0.01432)	0.15375 x 0.46125 (0.00605 x 0.01815)	0.183 x 0.549 (0.007 x 0.021)	0.21 x 0.63 (0.008 x 0.024)
	Active display area (mm/in.)		698.4 x 392.85 (27.4 x 15.4)	885.6 x 498.15 (34.8 x 19.6)	1054.08 x 592.92 (41.49 x 23.34)	1209.6 x 680.4 (47.62 x 26.78)
	Brightness (Typ.)		350 nit			
	Contrast ratio (Typ.)		5000:1			
	Viewing angle (H/V)		178:178			
	Response time (G-to-G)		8 ms			6 ms
	Display colors		16.7 M			
	Color gamut		72%			
Display	Dynamic C/R		50,000:1			
	H-Scanning frequency		30 ~ 81 kHZ			
	V-Scanning frequency		48 ~ 75 HZ			
	Maximum pixel frequency		148.5 MHz			
Sound	Speaker type		Built-in speaker (10 W + 10 W)			
Connectivity	Input	RGB	Analog D-SUB, DVI-D			
		Video	HDMI1, Component (CVBS Common)			
		Audio	Stereo mini jack			
	Output	RGB	N/A			
		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			
Power	Type		Internal			
	Power supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz			
	Power consumption	Max (W/h)	77	121	132	176
		Typical (W/h)	43 W (US), 60 W (W/W, Kor)	60 W (US), 82 W (W/W, Kor)	65 W (US), 95 W (W/W, Kor)	86 W (US), 125 W (W/W, Kor)
		BTU (Max)	262.57	412.61	450.12	600.16
		Sleep mode	less than 0.5 W			
		Off mode	less than 0.5 W			

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Specifications

			DB32D	DB40D	DB48D	DB55D
Mechanical specs	Dimension (mm/in.)	Set	721.4 x 420.3 x 49.9 (28.4 x 16.5 x 1.9)	906.6 x 524.7 x 49.9 (35.6 x 20.6 x 1.9)	1,075.1 x 619.4 x 49.9 (42.3 x 24.3 x 1.9)	1,230.6 x 706.9 x 49.9 (48.4 x 27.8 x 1.9)
		Package	815 x 491 x 132 (32 x 19.3 x 5.1)	1,012 x 138 x 605 (39.8 x 5.4 x 23.8)	1,185 x 715 x 148 (46.6 x 28.1 x 5.8)	1,348 x 810 x 148 (53.0 x 31.8 x 5.8)
	Weight (kg/lb)	Set	4.8 (10.5)	7.5 (16.5)	11.1 (24.4)	15.4 (33.9)
		Package	5.9 (13.0)	9.1 (20.0)	14 (30)	19.5 (42.9)
	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		Embedded, SBB-C (Attachable)			
	Bezel width (mm/in.)		10.5 (0.4) (Top, Side) 15.0 (0.5) (Bottom)	9.5 (0.3) (Top, Side) 15.0 (0.5) (Bottom)		
Operation	Operating temperature		0°C ~ 40°C			
	Humidity		10~80%			
Feature	Key		Slim & Light LFD with Built-in MagicInfo Player S2			
	Special	H/W	Super Clear Coating, Temperature Sensor, Pivot Display, Button Lock, Clock Battery (80 hrs Clock Keeping), Built-in Speaker (10 W x 2), SD Card Slot			
		S/W	Magic Clone(to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC,Plug and Play (DDC2B), PIP/PBP, Image Rotation, Built In MagicInfo Player S2, Firmware Update by Network, LFD New Home Screen, Predefined Template for Vertical Usage, Multi Channel, Mobile Control, Event Schedule, Backup Player, PC-less Touch, MagicPresenter			
Feature	Internal player (Embedded H/W)	Processor	Cortex®-A9 1 GHz Quad Core CPU			
		On-chip cache memory	L1 (I/D) : 32 KB / 32 KB, L2 (Unified) : 1 MB			
		Clock speed	1 GHz CPU Quad			
		Main memory interface	1.5 GB 48-bit DDR3-933 (1,866MHz)			
		Graphics	2D & 3D Graphics Engine : Up to 1,920 x 1,080. 32 bpp / Supports OpenGL ES®			
		Storage (FDM)	4 GB (2 GB occupied by O/S, 2 GB available)			
		Multimedia	Video Decoder : MPEG-1/2, H.264/AVC (Dual) / VC-1, JPEG, PNG, VP8 Audio DSP (Decoder) : AC3 (DD), MPEG, DTS and etc.			
		Host bus	N/A			
		IO ports	USB 2.0			
		Operating system	Linux®			

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Specifications

			DB32D	DB40D	DB48D	DB55D
Certification	Safety		CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PSB+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS (India) : IEC60950-1 / IS13252 NOM (Mexico) : Tuner (NOM-001-SCFI-1993), Tunerless (NOM-019-SCFI-1998) KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 CSA (Canada) : cUL UL(USA) : cUL60950-1 TUV (Germany) : CE NEMKO (Norway) : CE			
	EMC		FCC (USA) : Part 15, Subpart B Class A CE (Europe) : EN55022:2006+A1:2007, EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : Tuner (KN13 / KN20), Tunerless (KN22 / KN24) BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) : GB9254-2008, GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97, EN55022:2006+A1:2007, EN55024:1998+A1:2001+A2:2003			
	Environment		ENERGY STAR 6.0® (USA)			
Accessories	Included		Quick Setup Guide, Warranty Card, D-Sub cable, Power Cord, Remote Controller, Batteries			
	Optional	Stand	STN-L3240E		STN-L4655E	
		Mount	WMN4070SD, WMN250MD		EMN4270SD, WMN250MD	
		Specialty	CML400D (Ceiling Mount)		CML450D (Ceiling Mount)	
Media player			SBB-C (Optional)			

Legal and additional information

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. is a global leader in technology, opening new possibilities for people everywhere. Through relentless innovation and discovery, we are transforming the worlds of TVs, smartphones, tablets, PCs, cameras, home appliances, printers, LTE systems, medical devices, semiconductors and LED solutions. We employ 286,000 people across 80 countries with annual sales of US$216.7 billion. To discover more, please visit www.samsung.com.

For more information

For more information about Samsung DBD Series displays, visit www.samsung.com/business or www.samsung.com/displaysolutions

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