

# Samsung professional-grade small-sized displays

DB22D-P, DB22D-T and DB10D

Small, versatile digital signage for impactful targeted messaging



## Enhance the customer experience with impactful, up-close message delivery

### Highlights

- Enhance the customer experience by effectively delivering engaging personalized messaging at the 'point-of-sale' with sleek, space-saving LED displays.
- Operate effectively in business and commercial environments with high durability, a longer lifespan, extended warranty, multiple connectivity, and easy content creation and management
- Enhance operational performance with embedded 2nd Generation Samsung SMART Signage Platform (SSSP), boasting a powerful quad-core processor with System-on-Chip (SoC) technology
- Streamline the display environment and increase efficiency with an all-in-one solution featuring built-in Wi-Fi and an embedded media player
- Rely on a proven display leader that offers a B2B product road map, top-notch customer service and extensive global coverage.

### Target messages in a dynamic way with small-scale digital signage

As information-hungry consumers increasingly expect personalized, on-demand services, the use of small-sized digital signage is becoming more prevalent in various business environments.

Small screens offer versatility, enabling them to be placed in intimate and tighter locations, providing up-close, individualized messages targeted for specific products and services. The result is a deeper, differentiated in-store experience through proximate, interactive communication that boost sales performance.

Small digital displays can also include a touchscreen or mobile solution for a more interactive and pleasurable customer experience. Touch interaction empowers consumers to search for the information they need, and is highly effective in engaging with product details. Additionally, information that frequently changes can be remotely updated in real time.

Samsung professional-grade small-sized displays offer a comprehensive lineup to suit virtually any need or budget. The DB22D-p model features a wide viewing angle and the DB22D-T model includes an interactive touchscreen. With a 10.1-inch display, the DB10D model provides tablet convenience in a professional-grade device.

### Experience highly reliable professional-grade displays

Consumer-grade displays are not designed for continuous usage, which is an important factor when considering the commercial use of any digital display. Samsung small-sized displays are specifically engineered for highly reliable, long-term commercial use in business environments and deliver high levels of brightness of up to 450-nit depending on a model\*.

Consumer-grade displays such as tablets or other consumer devices lack the durability to withstand the elements and punishment of commercial applications. Samsung professional-grade small-sized displays are robust enough to withstand heat, cold, dust, vandalism and constant, sometimes rough, customer use.

Samsung small-sized displays have embedded management software, which allows users to easily create rich content and manage the displays remotely over a network. The signage is also equipped to handle multiple connectivity options.

Although consumer-grade displays might seem economical in the short term, the displays inevitably become costly in the long run, when they break down unexpectedly, with voided or expired warranties. In contrast, Samsung small-sized displays are backed by a 2 to 3-year warranty depending on a model\*\*.

Due to its versatility, effectiveness and operational efficiency, increasing number of businesses are seeking commercial-grade small-sized displays.

\* DB22D-P: 250-nit, DB22D-T: 220-nit, DB10D: 450-nit for brightness  
 \*\* 3-year warranty for DB22D-P and DB22D-T and 2-year warranty for DB10D

## Promote a vast array of businesses with versatile applications

### Retail Usage Scenario

Small-sized displays can present digital messaging on store shelves or counters to promote sale items. They can also offer detailed merchandise information, such as suggestions for similar available products or how-to-use advice.

Small-sized displays on counters or tableside in quick service restaurants (QSRs) provides an easy, convenient way for diners to browse menu selections and place orders.



### Corporate Usage Scenario

Personnel can stay informed of meetings, appointments or conferences with versatile, small-sized displays placed on walls outside meeting rooms or classrooms.

Large enterprises or universities can use small displays in offices or campuses to post announcements, class schedules, last-minute rescheduling or any information that changes frequently, in near-real time.



### Entertainment Usage Scenario

Hotels, resorts and casinos can promote their facilities, deliver welcome messages and provide information about amenities and attractions with professional-grade small-sized displays located at check-in or concierge desks.

Casinos can use small digital signage mounted to slot machines to entertain guests with immersive content and information, and to encourage them to continue playing.



### Healthcare Usage Scenario

Doctors' offices and hospitals can use small-sized displays to educate patients about health information or post scheduling information in the waiting room.

Placed on the reception desk in lobbies of hospitals and outpatient clinics, small-sized displays are ideal for delivering instructions, facility maps and service information to visitors. When equipped with interactive touchscreens, the small signage can be used for searchable directories.



## Leverage powerful performance for efficiency and viewer engagement

### Attract and engage customers with professional-grade small signage

Because of their compact size, Samsung small-sized displays can be used in close proximity to customers to capture their attention and engage them in activities or product information. The applications are virtually limitless. Samsung small-sized displays are designed to deliver powerful, targeted messages with rich content and interactive features to captive audiences in intimate environments.

### Boost power and functionality with 2<sup>nd</sup> Generation SSSP

Samsung small-sized displays leverage Samsung's industry-leading 2nd Generation SSSP and a powerful quad-core processor with SoC technology for outstanding performance.

2nd Generation SSSP has advanced MagicInfo Player S2 all-in-one embedded content management solution that eliminates the need for a separate PC or media player. The result is an uncluttered and simplified digital signage configuration that delivers rich media content, enhanced operational efficiency and lower TCO.

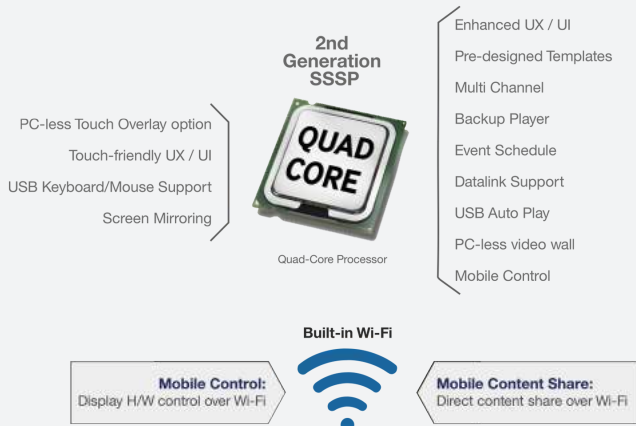


Figure 1. Robust capabilities of 2nd Generation SSSP

### Project crisp, clear images with full-high-definition output

Samsung engineered several features that ensure superb-quality full-high-definition (FHD) images for maximum impact. Samsung's picture quality enhancer with advanced features including Color Enhancer, Detail Enhancer, Contrast Enhancer and Color Temperature controls delivers crisp, clear picture quality.

In addition, various color modes can be used and optimized for a variety of environments, such as inside shops and malls, offices and schools, or terminals and stations. The DB22D-P model features a wide viewing angle (WVA) panel, which delivers broader viewing experience of 178 degrees.

And with the anti burning function you can display the same images for longer than 30 min when used as an e-catalogue or price tag without the image burning.

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

The new touch-friendly Home UI delivers simplified, intuitive display operation for user convenience. Main functions are conveniently available on the Home screen, without having to go through multiple sub-menus, and represented with large menu buttons, for ease of use. A selection of menu configurations is also easily accessible on the Home screen.

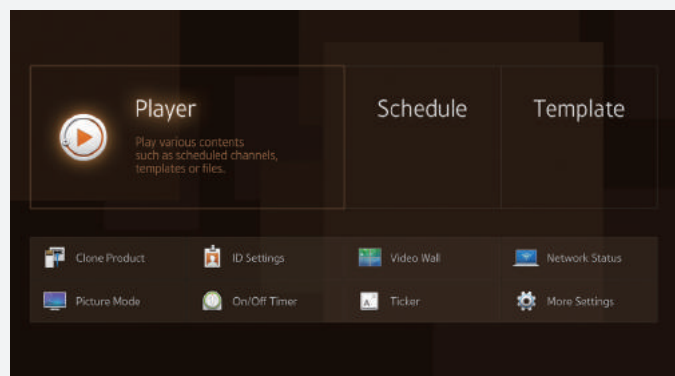


Figure 2. Samsung small-sized display dedicated Home UI design

## Rely on innovative Samsung display technology and world-renowned support

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

Unclutter and simplify digital signage configuration, wireless content distribution and display control with the advanced embedded content management solution provided by the 2nd Generation SSSP. Professional grade small-sized displays provide PC-less content playback and network connectivity 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 multiple displays. This feature eliminates the need for a separate PC for each display, reducing clutter.

### Simplify networking with a built-in Wi-Fi module

A convenient, built-in Wi-Fi module provides users with a simplified way to control the small-sized displays and wirelessly distribute content using mobile devices for convenient content management.

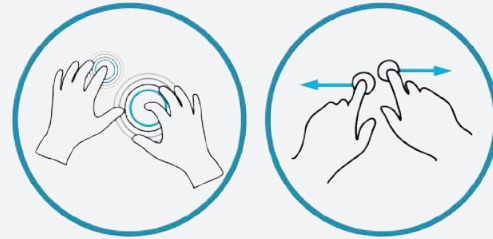
Built-in Wi-Fi eliminates the need to locate a PC to connect to the display or find the right cable connections. Users can easily send and schedule display content directly from a mobile device\*.



Figure 3. Users can manage and distribute content using mobile devices

### Engage viewers with interactive touchscreens

The DB22D-T model features a powerful touch solution that has 10-point, 2-drawing PC-less touch capabilities, enabled by the processor's SoC technology. The touchscreen feature encourages customer interaction and engagement in the product or service that is promoted on the screen. The bezel-less touchscreen provides virtually distraction-free viewing so the customer can focus on the message, not the equipment delivering it. Customers can use the touchscreen to search for information about products or services for a more personalized experience.



### 10 Point Touch

Figure 4. Interactive touchscreen for more engaging experience

### Leverage the advantages of the Samsung global brand

When choosing a digital signage provider, you can rely on Samsung's solid reputation as a global technology leader. Samsung is a world-renowned brand in electronics and a major display brand power with an extensive B2B product roadmap.

With B2B-suited customer service for commercial environments and global coverage, Samsung delivers superior products and solutions that work seamlessly together, all backed by superb engineering and customer support.

In addition, Samsung small-sized displays are backed by a 2 to 3-year warranty depending on the model.






Figure 5. Global presence of Samsung

\*Compatible with  
 1. Android™ (4.0): Optimized for use with Samsung Galaxy S3, S4, S5, Galaxy Note2, Note3  
 2. iOS™ (6.0): iPhone® 4, 4S, 5

## Samsung professional-grade small-sized displays - DB22D-P, DB22D-T and DB10D

### Specifications

		DB22D-P	DB22D-T	DB10D	
					
Panel	Diagonal Size	21.5"		10.1"	
	Type	60 Hz E-LED BLU			
	Resolution	1,920 x 1,080		1,280 x 800	
	Pixel Pitch (mm/in.)	0.2482 x 0.2482 (0.009 x 0.009)		0.1695 x 0.1695 (0.006 x 0.006)	
	Active Display Area (mm/in.)	476.64 x 268.11 (18.7 x 10.5)		217 x 135.6 (8.5 x 5.3)	
	Brightness (Typ.)	250 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>	
	Contrast Ratio (Typ.)	1000:1		900:1	
	Viewing Angle (H/V)	178 / 178			
	Response Time (G-to-G)	14 ms		30 ms	
	Display Colors	16.7 M			
Display	Color Gamut	72%		50%	
	Dynamic C/R		50,000:1		
	H-Scanning Frequency		30 ~ 81 kHz		
	V-Scanning Frequency		48 ~ 75 Hz		
Sound	Maximum Pixel Frequency	148.5 MHz			
	Speaker Type	Built in Speaker (1W x 2)		Built in Speaker (1W x 1)	
Connectivity	Input	RGB VIDEO AUDIO	Analog D-SUB HDMI®	N/A	
	Output	USB	USB 2.0 x 2	USB 2.0 x 3	USB 2.0 x 1
		RGB		N/A	
		VIDEO		N/A	
		AUDIO		N/A	
		Power Out		N/A	
	External Control	RS232C(in) thru stereo jack, RJ45			
	External Sensor	N/A			
	Power	Type	Internal		Adapter
		Power Supply	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz		
Power Consumption		Max[W/h]	44		18.7
		Typical[W/h]	40		18
		BTU(Max)	150.04		63.767
		Sleep mode	less than 0.5 W		
		Off mode	less than 0.5 W		
Mechanical Spec	Dimension (mm/in.)	Set	507.5 x 311.2 x 57.8 (19.9 x 12.2 x 2.2)	507.5 x 311.2 x 59.3 (19.9 x 12.2 x 2.3)	246.8 x 165.2 x 24.9 (9.7 x 6.5 x 0.9)
		Package	570 x 376 x 128 (22.4 x 14.8 x 5)	570 x 376 x 128 (22.4 x 14.8 x 5)	300 x 205 x 79 (11.8 x 8 x 3.1)
	Weight (kg/lb)	Set	3.6 (7.9)	4.4 (9.7)	0.6 (1.3)
		Package	4.9 (10.8)	5.7 (12.5)	1.2 (2.6)
	VESA Mount (mm)	100 x 100			50 x 50
	Protection Glass	N/A	Yes (0.7mm)		N/A
	Media Player Option Type	Embedded			
Operation	Bezel Width (mm/in.)	17.5 x 14.9 x 24.5 (0.6 x 0.5 x 0.9)		14.1 (0.5)	
	Operating Temperature	0 ~ 40 °C			
	Humidity	10% ~ 80%			
Warranty	3 years		2 years		

## Samsung professional-grade small-sized displays - DB22D-P, DB22D-T and DB10D

### Specifications

	DB22D-P	DB22D-T	DB10D
<b>Key</b>	A Small-sized Signage that offers high reliable operation with an embedded, intuitive content manage solution	A Small-sized Signage that offers high reliable operation with an embedded, intuitive content management and interactive touch solution	A Small-sized Signage that offers high reliable operation with an embedded, intuitive content manage solution
<b>H/W</b>	Temperature Sensor, Portrait Installation Support, Image Rotation, Button Lock, Clock Battery(80hrs Clock Keeping), Built in Speaker, WiFi Module Embedded	Temperature Sensor, Portrait Installation Support, Image Rotation, Button Lock, Clock Battery(80hrs Clock Keeping), Built in Speaker, WiFi Module Embedded, Touch(10 Point, 2 Drawing)	Temperature Sensor, Portrait Installation Support, Button Lock, Clock Battery(80hrs Clock Keeping), Built in Speaker, WiFi Module Embedded, SD Card Slot
<b>Special</b>			Magic Clone(to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play (DDC2B), Image Rotation, Built In MagicInfo Player S2, Firmware Update by Network, LFD New Home Screen, Predefined Templates for Vertical Usage, Mobile Control, Event Schedule, Backup Player,
<b>S/W</b>	Magic Clone(to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play (DDC2B), Smart Scheduling, Smart F/W update, Built In MagicInfo Player S2		
<b>Feature</b>			
<b>Processor</b>	Cortex®-A9 1 GHz Quad Core CPU		
<b>On-Chip Cache Memory</b>	L1 (I/D) : 32 KB / 32 KB L2 (Unified) : 1 MB		L1 (I/D) : 32 KB / 32 KB L2 (Unified) : 512 KB
<b>Clock Speed</b>	1 GHz CPU Quad		
<b>Main Memory Interface</b>	1.5 GB 48 bit DDR3-933 (1,866 MHz)		1 GB Dual 32 bit DDR3-667 (1,333 MHz)
<b>Internal Player (Embedded H/W)</b>	2D & 3D Graphics Engine / Up to 1,920 x 1,080. 32 bpp / Supports OpenGL ES®		
<b>Storage (FDM)</b>	4 GB (2 GB occupied by O/S, 2 GB available)		
<b>Multimedia</b>	Video Decoder / MPEG-1/2, H.264/AVC (Dual) / VC-1, JPEG, PNG, VP8 Audio DSP (Decoder) / AC3 (DD), MPEG, DTS and etc.		Video Decoder / MPEG-1/2, H.264/AVC (Dual) / VC-1, JPEG, PNG, Audio DSP (Decoder) / AC3 (DD), MPEG, DTS and etc.
<b>Operating System</b>	Linux®		
<b>Safety</b>	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) : Tunerless : NOM-019-SCFI-1998 / KC (Korea) : K 60950-1 / EAC (Russia) : EAC+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 / EMKO (Norway) : CE		
<b>Certification</b>			
<b>EMC</b>	FCC (USA) : FCC 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) : 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		FCC (USA) : FCC Part 15, Subpart B class A CE (Europe) : EN55022, EN55024 VCCI (Japan) : V-3 (CISPR22) KCC (Korea) : KN22, KN24 BSMI (Taiwan) : CNS13438 (CISPR22) C-Tick (Australia) : AS/NZS3548 (CISPR22) CCC (China) : GB 9254-2008, GB 17625.1-2003
<b>Environment</b>	N/A		

## Samsung professional-grade small-sized displays - DB22D-P, DB22D-T and DB10D

	DB22D-P	DB22D-T	DB10D
<b>Accessories</b> Included	Quick Setup Guide, Warranty Card, D-Sub cable, Power Cord, Remote Controller, Batteries		Quick Setup Guide, Warranty Card, Regulatory guide, Power Cord, Adapter, Remote Controller, Batteries, RS232C-Stereo cable, Stand Bar