Samsung DMD Series displays

Enhance business messaging through 24/7 professional displays with a powerful embedded solution and wide product range



Highlights

- Operate seamlessly and continuously at an affordable cost with 24/7 durable performance based on Samsung's proven technology
- Get state of the art LFD innovation with 2nd Generation SSSP and a built-in Wi-Fi module that enhance and streamline LFD configuration and usage with clutter-free, wireless content sharing and display control
- Operate the display more easily with the new, intuitive enhanced Home UI, which also features touch operation when the optional Touch Overlay is added
- Select the right display for any business from a broad range of sizes (including 32-, 40-, 48-, 55-, 65- and 75 inch models) that support various customer needs

Convey a variety of business messages 24/7, anywhere with reliable and affordable displays

The rapidly increasing demand for LFDs (Q2 2013 26% CAGR[1]) shows that many businesses recognize the value of digital messaging for conveying key information to their customers. Today's companies need displays that operate 24/7 in a wide range of business environments at an affordable price.

Samsung introduces DMD Series displays with a new design and 2nd Generation SSSP. These innovative displays meet the needs of customers who want powerful, yet simplified features and an attractive, uncluttered display. DMD Series displays also provide a wide range of product sizes and an attachable selection of bezel colors and designs including matte black, white, wood and titanium to match any display environment.

DMD Series displays' robust 2nd Generation SSSP enables a variety of powerful digital signage features, including PC-less Touch Overlay support, Multi-channel Scheduling, Priority Player and more.

Additional features, such as an intuitive Home user interface (UI), and USB keyboard and mouse support (without an additional PC unit) enhance the user's convenience and ease-of-operation.

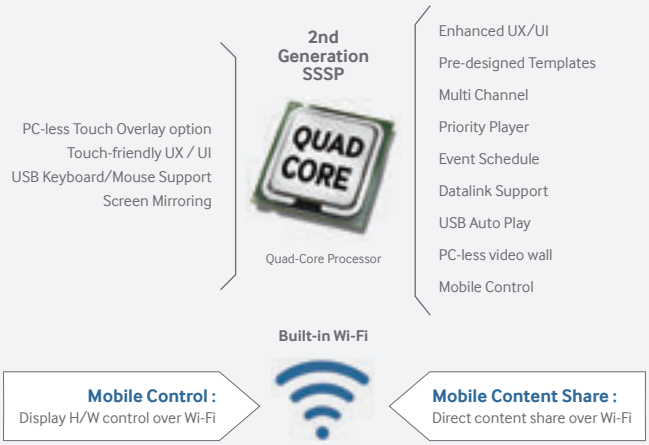


Figure 1. 2nd Generation SSSP robust capabilities

Broadcast messages easily and efficiently in many business environments

Provide exceptional, continuous display of rich content with high brightness

Experience outstanding, non-stop 24/7 display of business content at an affordable cost. Continuous display performance and durability based on Samsung's proven technology is extended to conventional, 450-nit brightness in a professional-level LFD.

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

DMD Series displays leverage Samsung's new 2nd Generation SSSP with powerful quad-core embedded System on Chip (SoC) to boost power and functionality. 2nd Generation SSSP display doubles the performance of dual-core displays with twice the processing speed with a 1GHz quad-core CPU and 1.5GB double data rate (DDR3) dual 48-bit memory. The DMD 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 DMD 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.

Provide a clutter-free environment for greater convenience with a streamlined look

DMD Series displays offer a neat, simplified appearance and easy content sharing and display control. The DMD Series displays' 2nd Generation SSSP and built-in Wi-Fi module enable a clutter-free LFD configuration, along with the following features that work without a PC:

- **PC-less content management** with PC-less network connection and PC-less Content Playback, which enables the playback of content by simply plugging in a USB and connecting even multiple displays over a daisy chain connection
- **PC-less Touch Overlay support** which enables touch interaction by connecting only the optional Touch Overlay, without an additional PC or SBB

PC-less Touch Solution can be used as a simple e-board solution without an external PC. The space-saving solution features easy installation. The supported Touch Overlay can be used with any Samsung D-Series displays.

Multiple displays can be connected in a PC-less environment using only a USB with a DisplayPort® (DP) loop-out. The solution can be organized without a console PC or network. It also offers Internal Auto Play, to eliminate the need for a dedicated PC, providing easier playback of content and reduced clutter.

Conveniently play content directly from a mobile device or laptop, or use a mobile app to control content with built-in Wi-Fi

The built-in Wi-Fi module extends the DMD Series displays' connectivity and control, enabling the transferring, playing, sharing and scheduling of content to the video wall or a standalone DMD Series display without physical cables between content source device and the display. This feature eliminates the need for searching the back of the display to find the right connector port and the need for extensive lengths of cable dangling outside the display unit. The feature also allows custom mobile apps to communicate directly with DMDs; for example, the built-in Wi-Fi module offers screen sharing from note PCs, tablets and smartphones.



Figure 2. Wi-Fi connectivity

Conveniently control the display through an intuitive Home interface

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

The new DMD Series displays' touch-friendly Home UI delivers simplified display operation for user convenience. Main DMD Series display functions are conveniently available on the Home screen in a new matrix design, and are represented with large menu buttons for ease of use. Selected configuration menus are also displayed on the main Home screen for easier access. When the optional Touch Overlay is added, the Home UI supports touch interaction for easier use.



Figure 3. LFD dedicated Home screen design.

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 DMD Series displays feature a new LFD design with a slim bezel and an invisible, tag-style logo. Businesses can choose the best-suited LFD for their display needs from a broad range of product sizes (from 32 to 75in.). 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
24/7 durable performance based on Samsung's proven technology	Enables seamless, continuous operation at an affordable cost
2nd Generation SSSP	Offers upgraded performance that enables integration for more convenient digital signage capabilities
PC-less content sharing and display control	Unclutters and streamlines the LFD configuration and usage
A new enhanced Home UI	Enables users to operate the displays more easily with intuitive controls
Built-in Wi-Fi module	Provides more convenient. flexible content playing and management through mobile devices and apps
A broad range of display sizes	Allows customers to select the right display for any business need
Touch Overlay option	Enhances the effectiveness of information by delivering interactive content on a touch screen

Samsung DMD Series displays

DMD

32"/40"/48"/55"/65"/75"



Connectors (North America/Korea)



1. RC232C IN
2. RC232C OUT
3. IR / AMBIENT SENSOR IN
4. AUDIO OUT
5. RGB / DVI / HDMI / AV / COMPONENT / AUDIO IN
6. SD CARD
7. USB
8. DVI IN
9. DP IN
10. HDMI IN 1
11. RGB IN
12. DP OUT (not available for DM32D)
13. ANT IN
14. AV IN / COMPONENT IN
15. IR OUT
16. RJ45

Connectors (Global)



1. RC232C IN
2. RC232C OUT
3. IR / AMBIENT SENSOR IN
4. AUDIO OUT
5. RGB / DVI / HDMI / AV / COMPONENT / AUDIO IN
6. SD CARD
7. USB
8. DVI / MAGICINFO IN
9. DP IN
10. HDMI IN 1
11. RGB IN
12. DP OUT (not available for DM32D)
13. AV IN / COMPONENT IN
14. IR OUT
15. RJ45

Samsung DMD Series displays

Specifications

			DM32D	DM40D	DM48D	DM55D
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.)		0.12 x 0.36 (0.004 x 0.01)	0.15 x 0.46 (0.006 x 0.01)	0.18 x 0.54 (0.007 x 0.021)	0.21 x 0.63 (0.008 x 0.024)
	Active display area (mm/in.)		698.4 x 392.8 (27.4 x 15.4)	885.6 x 498.1 (34.8 x 19.6)	1,054.0 x 592.9 (41.4 x 23.3)	1,209.6 x 680.4 (47.6 x 26.7)
	Brightness (Typ.)		400 nit	450 nit		
	Contrast ratio (Typ.)		5000:1			
	Viewing angle (H/V)		178:178			
	Response time (G-to-G)		8 ms			
	Display colors		10-bit Dithering-1.07 Billion			
	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	Analog D-SUB, DVI-D, Display Port 1.2		
		Video	HDMI1, Component (CVBS Common)			
		Audio	Stereo mini jack			
	Output	RGB	N/A	DP1.2 (Loop-out)		
		Video	N/A			
		Audio	Stereo mini jack			
		Power Out	N/A			
	External control		RS232-C (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)	61	86	100	130
		BTU (Max)	262.57	412.61	450.12	600.16
		Sleep mode	Less than 0.5 W			
		Off mode	Less than 0.5 W			

Samsung DMD Series displays

Specifications

			DM32D	DM40D	DM48D	DM55D
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 (48.2 x 27.8 x 1.9)
		Package	815 x 491 x 132 (32 x 19.3 x 5.1)	1,012 x 605 x 138 (39.8 x 23.8 x 5.4)	1,185 x 715 x 148 (46.6 x 28.1 x 5.8)	1,348 x 810 x 148 (53 x 31 x 5)
	Weight (kg/lb)	Set	4.84 (10.6)	7.52 (16.5)	11.1 (24.4)	15.4 (33.9)
		Package	5.9 (13.0)	9.1 (20.0)	14 (30.8)	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 (0.41) (Top, Side) 15.0 (0.59) (Bottom)	9.5 (0.37) (Top, Side) 15.0 (0.59) (Bottom)		
Operation	Operating temperature		0℃ ~ 40℃			
	Humidity		10 ~ 80%			
Feature	Key		Slim & Light LFD with Built-in MagicInfo Player S2			
	Special	H/W	Super Clear Coating, Temperature Sensor, Pivot Display, Clock Battery (80 hrs Clock Keeping), Built-in Speaker, Wi-Fi Module Embedded, SD Card Slot	Super Clear Coating, Temperature Sensor, Video Wall (15 x 15), Pivot Display, Clock Battery (80 hrs Clock Keeping), Built-in Speaker, Wi-Fi Module Embedded, SD Card Slot		
		S/W	Magic Clone (to USB), Auto Source Switching & Recovery, RS232C/ RJ45 MDC, Plug and Play, PIP/PBP, Image Rotation, Button Lock, Built-in MagicInfo Player S2, Firmware Update by Network, LFD New Home Screen, PC-less VideoWall, Predefined Template for Vertical Usage, Multi Channel, Mobile Control, Event Schedule, Backup Player, PC-less Touch, MagicPresenter	Magic Clone (to USB), Auto Source Switching & Recovery, RS232C/ RJ45 MDC, Plug and Play, PIP/PBP, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain (HDCP Support), Built-in MagicInfo Player S2, Firmware Update by Network, LFD New Home Screen, PC-less VideoWall, Predefined Template for Vertical Usage, Multi Channel, Mobile Control, Event Schedule, Backup Player, PC-less Touch, MagicPresenter		
	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 Dual 48 bit DDR3-933 (1,866 MHz)			
		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)			

Samsung DMD Series displays

Specifications

			DM32D	DM40D	DM48D	DM55D
Feature	Internal player (Embedded H/W)	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®			
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, RS232C(IN) adapter, Cover-Jack, Screw (M3L8, 1EA) (M4L8, 4EA)			
	Optional	Stand	STN-L3240E		STN-L4655E	
		Mount	WMN4070SD WMN250MD		WMN4270SD WMN250MD	
		Specialty	CML400D (Ceiling Mount)		CML450D (Ceiling Mount)	
Media player			SBB-C (Optional)			

Samsung DMD Series displays

Specifications

			DM65D	DM75D
Panel	Diagonal size		65"	75"
	Type		60 Hz D-LED BLU	
	Resolution		1,920 x 1,080 (16:9)	
	Pixel pitch (mm/in.)		0.248 x 0.744 (0.009 x 0.029)	0.2865 x 0.8595 (0.0112 x 0.0339)
	Active display area (mm/in.)		1428.48 x 803.52 (56.23 x 31.63)	1650.24 x 928.26 (64.96 x 36.54)
	Brightness (Typ.)		450 nit	
	Contrast ratio (Typ.)		4000:1	5000:1
	Viewing angle (H/V)		178:178	
	Response time (G-to-G)		6.5 ms	4 ms
	Display colors		10-bit Dithering-1.07 Billion	
	Color gamut		72%	
Display	Dynamic C/R		4,000,000:1	
	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, Display Port 1.2	
		Video	HDMI1, Component (CVBS Common)	
		Audio	Stereo mini jack	
	Output	RGB	DP1.2 (Loop-out)	
		Video	N/A	
		Audio	Stereo mini jack	
		Power Out	N/A	
	External control		RS232-C (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	Sleep mode	Less than 0.5 W	
		Off mode	Less than 0.5 W	
		Max [W/h]	TBD	308
		Typical [W/h]	TBD	147 (US), 233 (W/W, Kor)
		BTU (Max)	TBD	1050.28

Samsung DMD Series displays

Specifications

			DM65D	DM75D
Mechanical specs	Dimension (mm/in.)	Set	1,467.4 x 848.0 x 55.9 (57.7 x 33.3 x 2.2)	1,676.2 x 959.5 x 57.7 (65.9 x 37.7 x 2.2)
		Package	1,600 x 980 x 217 (62 x 38 x 8)	1,810 x 1,085 x 250 (71 x 42 x 9)
	Weight (kg/lb)	Set	27.4 (60.4)	34.1 (75.1)
		Package	40.3 (88.8)	44.1 (97.2)
	VESA mount (mm/in.)		400 x 400 (15.7 x 15.7)	
	Protection glass		N/A	
	Stand type		Foot Stand (Optional)	
	Media player option type		Embedded, PIM (Plug in Module)	
	Bezel width (mm/in.)		18.0 (0.7) (Top, Side) 23.5 (0.9) (Bottom)	12.0 (0.4) (Top, Side) 17.3 (0.6) (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, Video Wall (15 x 15), Pivot Display, Clock Battery (80 hrs Clock Keeping), Built-in Speaker, Wi-Fi Module Embedded, SD Card Slot	
		S/W	Magic Clone (to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play, PIP/PBP, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain (HDCP Support), Smart Scheduling, Smart F/W update, Built-in MagicInfo Player S2, Firmware Update by Network, LFD New Home Screen, PC-less VideoWall, Predefined Template for Vertical Usage, Multi Channel, Mobile Control, Event Schedule, Backup Player, PC-less Touch, MagicPresenter	
	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 Dual 48-bit DDR3-933 (1,866 MHz)	
		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 Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	
		IO ports	USB 2.0	
		Operating system	Linux®	

Samsung DMD Series displays

Specifications

			DM65D	DM75D
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, RS232C(IN) adapter, Cover-Jack	
	Optional	Stand	STN-L4655E	STN-L7585F
		Mount	WMN4675MD	
		Specialty	CML450D (Ceiling Mount)	
Media player			PIM (Optional)	

Legal and additional information

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For more information

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

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