

Samsung Education Display Solutions

Improving digital signage throughout schools and communities

Interactive Display | Smart Signage | LED Signage | Desktop Monitor | MagicINFO Solution | MagicIWB Solution

SAMSUNG







Digitalising the school environment

Today, students, parents and teachers are inundated with school information. The educational sector has started incorporating digital signage in the classroom, and outside, to keep the school community informed. By introducing digital displays in the classroom, teachers are able to encourage students with bright images and text and increase their level of engagement.

The educational field is becoming more up-to-date with technology to modernise their environments and stand out from the competition. And with the introduction of digital displays, traditional chalkboards, pens, and paper, aren't needed as often as Samsung's products help to enhance the learning environment.





Improving the learning experience

Samsung's digital displays bring a different learning experience to the classroom by modernising the space. With bright and stimulating text and images, students are more engaged in the content being presented and encouraged to work simultaneously, sharing ideas and thoughts.

Teachers are also able to come to class without numerous pieces of paper for the students to read by themselves. They can upload or project a lesson to the digital display and present the content in a collaborative manner, fostering a classroom of imagination.

Samsung offers a complete line-up of interactive displays that improve the learning experience at schools. From Samsung Flip interactive digital Flip chart to QBH-TR Series electronic whiteboards, Samsung's technologies can be used in any classroom.





Displaying community highlights

Digital signage is a way to promote and recognise student's achievements, as well as highlight school events. Samsung's standalone and outdoor digital displays deliver crisp and brilliant content that can be easily read.



Enhancing student engagement

Incorporating large LED signage and video walls at schools or universities as a way to present information is becoming increasingly popular. Samsung's indoor LED and video wall displays help participants remain engaged during the presentation with vibrant colours and an impressive screen. Not only do the displays command attention, but the content being displayed is always crisp, clear and accurate.

Improving the learning experience

Facilitate more impactful lectures



Samsung Flip

Optimised for collaborative lectures in small groups

Samsung Flip is a digital flip chart that enables presenting lessons and conducting interactive learning sessions, thanks to its multi-use and intuitive design. Up to four teachers and students can simultaneously write on the display with a pen-to-paper feel, while customising the colour and thickness of the pen. With just a few touches, teachers can easily pull content from personal devices including mobile, laptop, USBs and network drives. Samsung Flip can also open many types of documents directly, including Microsoft Office* and PDFs. With a wheel-based stand, the Flip is easy to move and can reinvent the school setting, regardless of location.

Which e-board fits your class?

Flip	Screen size	Recommended school	Recommended class	Touch	Connectivity
Flip	55"	Higher education	A small group interactive discussion	4 drawing, Passive pen	Offers wireless, HDMI and USB ports connection with personal devices

^{*}Microsoft Excel is not supported.



Samsung QBH-TR

Designed for fully-integrated lessons

The QBH-TR is another option for teachers to present lessons, as they offer 65" and 75" UHD screens – perfect for immersive learning sessions. With the ability to switch between multiple screens, such as the whiteboard, internet browser and connected input sources, multiple lesson points can be covered within a presentation. Samsung QBH-TR is also compatible with Microsoft office for easy content sharing. Enabling up to four users to write at the same time with any tool, Samsung QBH-TR fosters engagement and interaction and encourages students to get involved in the learning session.

Screen size	Recommended school	Recommended class	Touch	Connectivity	QBH-TR
65",75"	Under K-12	A participatory class for large audience	4 drawing (SoC) /10 drawing (External Windows PC), Passive pen	Offers a wide range of connections including HDMI, DVI-D, DP and USB ports	MDU-1K

Samsung Flip

Samsung's Flip transforms how teachers engage with their students during lessons. The interactive display allows teachers to project lessons directly on the screen while writing, editing and updating the UHD content in real-time. Four people can use the display at once, creating an interactive classroom. Plus, the intuitive navigational tools allow you to easily save and return to lessons.



Comfortable and flexible design

The Samsung Flip's portable, wheel-based stand transforms any room into a collaborative huddle space, overcoming battles for that coveted meeting space. Users can also adjust the display position to portrait or landscape, without affecting the System-on-Chip configuration and the powerful TIZEN operating system's performance. There's also a useful front tray for housing pens and other vital supplies.









Compelling notes

With its intuitive interface and touch-ready design, the Samsung Flip creates a smooth and natural writing experience. Up to four different individuals can write on the display's central screen at the same time. From there, participants can capture and save new ideas for later. The Samsung Flip also encourages users to integrate their personal style by offering a range of different font sizes, colours and texts.



Smooth Touch



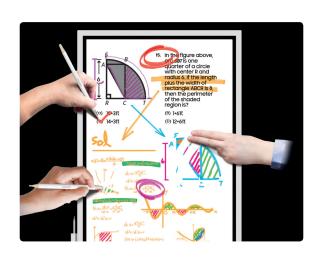
Flexible Erasing



Capture



Preview & Navigation





Versatile connectivity

The Samsung Flip display keeps all your meeting ideas that are often erased, misplaced or misinterpreted. Thanks to its extensive connectivity and dedicated Touch Out control, it seamlessly syncs with participants' personal devices. As a result, meeting attendees can share new content and ideas on the main screen from multiple sources without delay. The Samsung Flip also simplifies the often tedious meeting recap process via its centralised storage and distribution.









WiFi-Out Screen Sharing

Samsung QBH-TR

Samsung's QBH-TR e-boards are ideal for any large classroom, as these displays are available in 65 or 75 inches. As the QBH-TR Series easily connect and sync with other digital equipment, users can quickly switch between multiple screens in just a few touches. Thanks to its enhanced touch technology and UHD picture quality, students can easily see the information being presented and remain engaged in the learning session.



Seamless interaction

The QBH-TR Series provides a smooth, fully-functional digital writing experience in an intuitive format. Up to four different participants can simultaneously make notes on the central screen, using either dedicated pens or touch interaction.









Flexible Erasing

Smooth & Fast Writing

Multi-writing upto 4

Passive Pen

Expanded content integration

Each QBH-TR Series display offers dedicated HDMI, DVI-D, DP and USB ports where users can share and revise content from connected personal devices. The Working Screen feature lets users quickly switch between multiple screen sources in just a few touches.



Input Ports



Versatile Connectivity



Seamless Source Switch



Touch Control











Enhanced usability

Remote users can stay looped in conversations through the QBH-TR Series' seamless laptop streaming. Facilitators can help all participants access and upload content, without losing UHD picture quality or ultrahigh resolution. Users are also safeguarded by the displays' integrated Knox security system which prevents information being leaked and external interference.

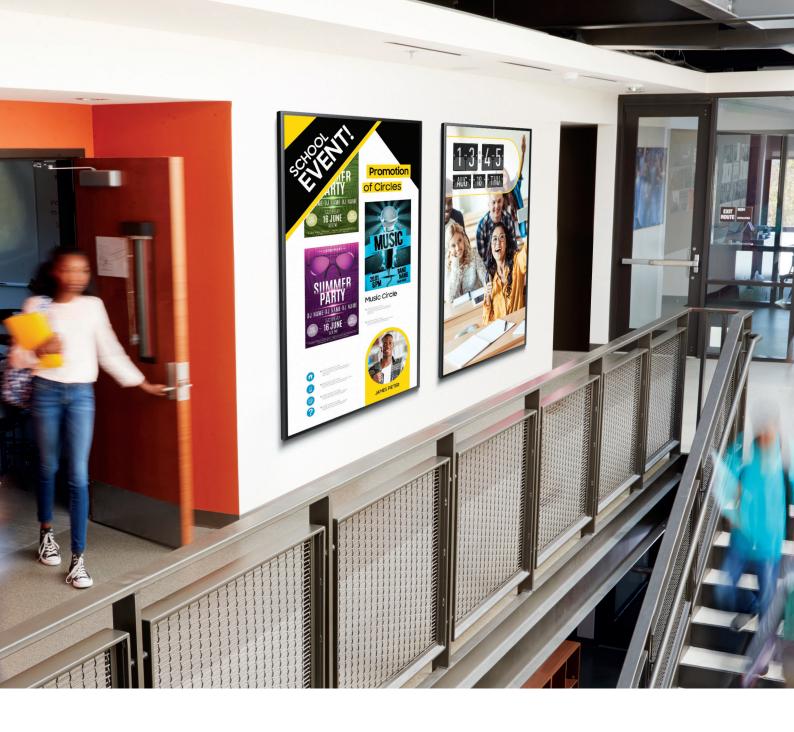








UHD



Displaying community highlights

Promote neighbourhood successes and school activities

Schools are proud to promote their students' achievements and activities within the community. Digital signage is a great way to deliver this information.

Samsung's standalone and outdoor signage delivers these messages using innovative technology that projects clear and crisp text and images in any environment. Easy to use and maintain, students and teachers can stay up-to-date with the latest school information. Samsung's digital signage are extremely durable, so users can be assured that messages will always be delivered consistently.

Standalone signage

Full line-up for use

Available in a range of sizes and configurations, Samsung's standalone displays provide a consistently clear presentation within a compact and stylish design. The powerful TIZEN operating system boosts graphic quality, while a System-on-Chip (SoC) composition eliminates the need for external media players.













Clear content delivery with powerful usability

Samsung's standalone displays offer refined brightness and image sharpness that guarantee a consistently clear presentation. Equipped with a nonglare frontal panel, the displays project heightened image visibility and information readability, even in settings with poor lighting. Samsung's standalone signage is IP5x certified, making them dust-resistant and able to withstand a range of environmental conditions – all while ensuring easier and more flexible user control from its integrated centralised infrared receiver (IR).









Seamless Playback

Centralised Management

Outdoor signage

All-in-one outdoor solution

Samsung's outdoor signage delivers an all-round engagement solution that's completely equipped for virtually any outdoor environment. Along with the added convenience of an embedded power box, the displays ensure durability, flexibility and 24/7 performance – even in extreme temperatures. Samsung's outdoor signage also provides a filterless, self-cooling system for easy maintenance and reduced TCO.



All in One Design



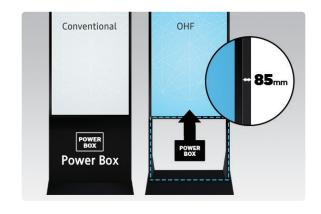
Power Box Embedded



Cooling System



24/7 Operation



Superior visibility and durability

The OHF displays feature innovative IK10-certified* Magic Protection Glass, TUV-certified image quality and an Auto Brightness sensor that all serve to improve picture quality and message delivery. When combined, these features produce high 2,500nit brightness and a 5,000:1 contrast ratio that amplify any type of content.

* The IK European strength test rating uses a 0-10 scale where 10 indicates the highest possible protection to measure the degree of resistance against external impact



High Brightness



Auto Brightness Sensor



Superior Durability



Magic Protection Glass



Enhancing student engagement

Increase audience's attention and involvement at events

With superior picture quality on Samsung's indoor LED and video wall displays, attendees are encouraged to participate during school social forums. Clear information that includes text and graphics can be easily seen on the large screens, improving attendees understanding of the content being discussed. All the information being presented is easily visible, thanks to its uniform and seamless screen.

LED signage

Brilliant content

For optimal LED performance, the IF Series displays boast a host of pictureenhancing features. Dynamic peaking technology combats interference from natural and ambient lighting. At the same time, it offers content peak brightness levels nearly two times higher than the standard LED signage maximum. The IF Series displays also safeguards against potential oversaturation and gradation variations to maintain lifelike on screen representations. Regardless of the environment, the IF Series displays produce consistently brilliant content.







Dynamic Peaking



Content Management



Fine-tune Uniformity







Clean, hassle-free installation

A hook-based design allows IF Series users to mount screens in a single, smooth motion. This seamless installation eliminates gaps and catwalk space, while all front and rear components remain visible and accessible for any maintenance. The IF Series' compact, durable design can also withstand damage from natural events as strong as a Level 4 earthquake, and complies with Americans with Disabilities Act (ADA) protrusion regulations.



Direct Mount™ Kit



Catwalk Space Free



Advanced Design



Earthquake Durabiltiv

Video wall display

Deeper visual impact with thin bezel

Samsung created the extremely narrow bezel video wall to be a robust display that is impactful, yet not intrusive. The video wall display has a 1.7mm bezel-to-bezel width that offers a seamless picture across multiple screens, and is configured to the user's needs without being bulky. Samsung's video wall is a non-glare display that distributes light through the screen, while preserving the vivid pictures and original information.



Narrow Bezel



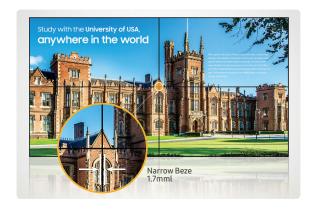
Non Glare



Enhanced Uniformity



High Contrast Ratio





Securely stabilised in any configuration

Building a visually appealing video wall that is customisable allows users the freedom to design their own distinctive display. The video wall attaches to a surface with hidden wall mounts sized to the dimensions of the video. An easy to understand guide makes installation simple, while a user-friendly design and wall mounts allow for a more precisely positioned video wall.







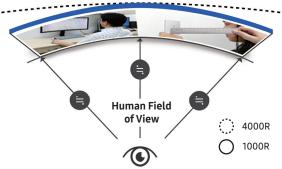


Easy Installation

Desktop monitor

Samsung not only offers solutions for the classroom, but also offer a full line-up of monitors for school administration. Engineered to match the natural curvature of the human eye, Samsung's curved monitors unify viewing angles and prevent excessive movement when viewing content. The curved displays are a strain-free way to protect the eyes from long-term usage. By condensing multi-monitor setups into a single, powerful high-resolution screen, Samsung's desktop monitors also enable smarter and simpler multitasking. The displays offer clearer visibility and interpretation without the need for time-consuming scrolling or zooming.

Curved monitor



*Assuming 1m viewing distance

Powerful comfort with a stress-free design

Samsung's curved monitor unifies viewing angles and prevents excessive movement when viewing content with its curved design. These customisable monitors feature height-adjustable stands, and pivot, swivel and tilt options. In any configuration, specialised Eye Saver and Flicker Free Modes reduce the impact of blue light emissions and overall distortion for a more comfortable long-term performance.

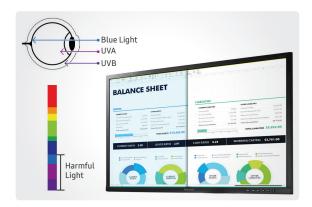
High resolution monitor

Amplified visuals

Samsung high resolution monitors bring even the most minorvisual details to life, enabling workers to do their jobs quickly and more accurately. Samsung UHD monitors in particular, feature a quantum dot composition and a resolution nearly four times higher than that of standard FHD displays. So multiple webpages, images and text become clearer and more colourful, without the need for extensive scrolling or zooming.



Monitor

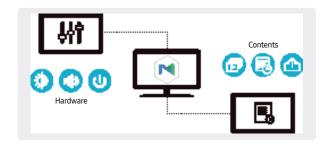


Safe, stress-free use for longer

During extended periods of monitor use, blue light wavelengths can fatigue or strain users' eyes. Each Samsung business monitor features a specialised Eye Saver Mode that reduces blue light emissions to increase long- term productivity. Furthermore, Samsung's Flicker Free technology prevents another common source of user discomfort.

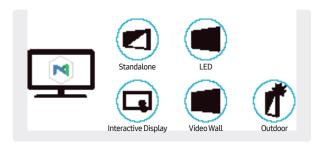
Samsung's solutions for schools

MagicINFO solution



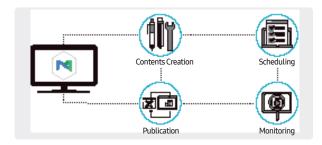
Single-point management

Samsung's MagicINFO is the industry-leading platform that offers seamless remote hardware and software management. Users can make changes to schedules and device settings, no matter the location or time of day. Regardless of the operational network, the MagicINFO solution is compatible with several display types, browsers and devices.



Versatile device compatibility

Samsung's MagicINFO solution controls and manages all types of displays such as indoor, outdoor signage and LED display. With its innovative technology, users can be assured that their content is managed with a state-of-the-art hardware solution.

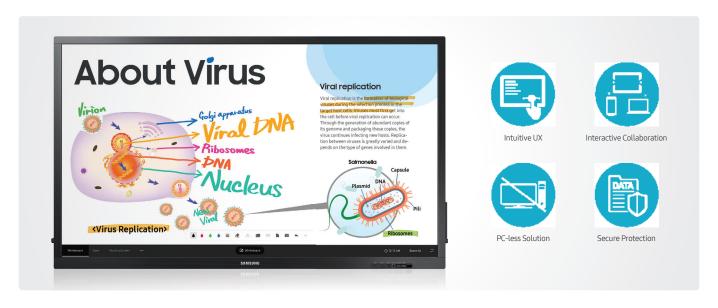


All-in-one message optimisation

MagicINFO's technology allows users in any environment to conveniently create, schedule and deploy content across an entire digital signage network. MagicINFO also offers great device control by letting users remotely monitor and troubleshoot single displays or an entire network.

MagicIWB solution

Samsung's MagicIWB solution is an e-board software solution that eliminates the need for additional PCs or license purchases. The solution allows schools to save space and cost with an embedded System-on-Chip (SoC) media player for PC-less touch. It also functions with a wide range of external content source compatibility. Featuring a pre-assembled Touch Overlay and embedded MagicIWB Solution, Samsung's e-board display is ready to use right out of the box.



SMART Signage - Standalone

	Project	Screen Size	Resolution	Brightness	Haze	Operation Hour	Connectivity	Operating System	S/W	IP5x Certification
	QMN	43", 49", 55", 65", 75"	3840 x 2160	450-500 nit	Non-Glare	24/7	In : DVI-D(1), DP1.2(1), HDMI 2.0(2), USB 2.0(2), RS232C, RJ45 / Out : HDMI 2.0(1), RS232C	Tizen 4.0	Built-in MagicInfo S6, SSSP 6.0	0
	QBN	43", 49", 55", 65", 75", 82"	3840 x 2160	300-350 nit	Glare	16/7	In : DVI-D(1), HDMI 2.0(2), USB 2.0(2), RS232C, RJ45 / Out : RS232C	Tizen 4.0	Built-in MagicInfo S6, SSSP 6.0	0
UHD	ОМН	49", 55", 65"	3840 x 2160	500 nit	Non-Glare	24/7	In : DVI-D(1), DP1.2(1), HDMI 2.0(2), USB 2.0(2), RS232C, RJ45 / Out : HDMI 2.0(1), RS232C	Tizen 3.0	Built-in MagicInfo S5, SSSP 5.0	0
	QMF	75", 85", 98"	3840 x 2160	500 nit	Non-Glare	24/7	In : DVI-I(1), DP1.2(2), HDMI 1.4(4), USB 2.0(1), RS232C, RJ45/ Out : RS232C	Non-SoC	-	Χ
	QВН	65", 75"	3840 x 2160	300 nit	Glare	16/7	In : DVI-D(1), DP1.2(1), HDMI 2.0(2), USB 2.0(2), RS232C, RJ45 / Out : RS232C	Tizen 3.0	Built-in MagicInfo S5, SSSP 5.0	Х
	PHF	43", 49", 55"	1920 x 1080	700 nit	Non-Glare	24/7	In : DVI-I(1), DP1.2(1), HDMI 2.0(2), USB 2.0(2), RS232C, RJ45 / Out : DP1.2(1), RS232C	Tizen 2.4	Built-in MagicInfo S4, SSSP 4.0	0
	PMF	32"	1920 x 1080	400 nit	Glare	16/7	In : DVI-I(1), DP1.2(1), HDMI 2.0(2), USB 2.0(2), RS232C, RJ45 / Out : DP1.2(1), RS232C	Tizen 2.4	Built-in MagicInfo S4, SSSP 4.0	Х
	РМН	43", 49", 55"	1920 x 1080	500 nit	Non-Glare	24/7	In : DVI-I(1), DP1.2(1), HDMI 2.0(2), USB 2.0(2), RS232C, RJ45 / Out : DP1.2(1), RS232C	Tizen 2.4	Built-in MagicInfo S4, SSSP 4.0	0
FHD	DBE	32",55"	1920 x 1080	350 nit	Glare	16/7	In : DVI-D(1), HDMI1.4(1), D-Sub(1), CVBS(1), USB 2.0(1), RS232C, RJ45 / Out : HDMI 2.0(1), RS232C	Orsay	Built-in MagicInfo S3, SSSP 3.0	Х
	DBJ	43", 49"	1920 x 1080	300 nit	Glare	16/7	In : DVI-D(1), HDMI 1.4(2), USB 2.0(1), RS232C, RJ45 / Out : HDMI 2.0(1), RS232C	Tizen 3.0	Built-in MagicInfo S5, SSSP 5.0	Х
	DCE	32",55"	1920 x 1080	330-350 nit	Glare	16/7	In : DVI-I(1), HDMI 1.4(1), CVBS(1), USB 2.0(1), RS232C, RJ45 / Out :	Simple SoC	Built-in MagicInfo Lite	Χ
	DCJ	43", 49"	1920 x 1080	300 nit	Glare	16/7	In : DVI-I(1), HDMI 1.4(1), CVBS(1), USB 2.0(1), RS232C, RJ45 / Out :	Simple SoC	Built-in MagicInfo Lite	Χ

SMART Signage - Videowall

		Screen Size		Bezel Width		Brightness		Operation Hour	
	HF-E, MH-E	55"	1.7mm	1.15 mm(U/L), 0.55 mm(R/B)	1920 x 1080	700 nit(UHF-E), 500 nit(UMH-E)	25%	24/7	Analog D-SUB, DVI-D, Display Port 1.2, 2 HDMI, Stereo mini Jack (in/out), DP1.2 (Loop-out), RS232C (in/out), RJ45, Detachable type external sensor (IR, Ambient)
	DE-A, DE-B	46", 55"	3.5mm	2.3 mm(U/L), 1.2 mm(R/B)	1920 x 1080	700 nit(UDE-A), 500 nit(UDE-B)	25%	24/7	Analog D-SUB, DVI-D, Display Port 1.2, 2 HDMI, Stereo mini Jack (in/out), DP1.2 (Loop-out), RS232C (in/out), RJ45, Detachable type external sensor (IR, Ambient)
U	IHF5	46"	5.5mm	3.4 mm(U/L), 2.0 mm(R/B)	1920 x 1080	700nit	11%	24/7	DVI-D, Display Port 1.2, 2 HDMI, Stereo mini Jack (in/out), DP1.2 (Loop-out), RS232C (in/out), RJ45, Detachable type external sensor (IR)

SMART Signage - Outdoor

	Screen Size		Brightness	Contrast Ratio	Operation Hour	Certification	Connectivity	
	46"	1920 x 1080	2500 nit	5000:1	24/7	IP56 Certified	2 HDMI, HDBaseT (LAN Common), HDCP 2.2, USB 2.0, Stereo Mini Jack (out), RS232C (In/Out), RJ45 (In/Out), HDBaseT	Built-in MagicInfo Player S4, SSSP 4.0
OHF	55	1920 x 1080	2500 nit	4000:1	24/7	IP56 Certified	2 HDMI, HDBaseT (LAN Common), HDCP 2.2, USB 2.0, Stereo Mini Jack (out), RS232C (In/Out), RJ45 (In/Out), HDBaseT	Built-in MagicInfo Player S4, SSSP 4.0
OIII	75"	1920 x1080	2500 nit	5000:1	24/7	IP56 Certified	2 HDMI, HDBaseT (LAN Common), HDCP 2.2, USB 2.0, Stereo Mini Jack (out), RS232C (In/Out), RJ45 (In/Out), HDBaseT	Built-in MagicInfo Player S4, SSSP 4.0
	85"	3840x2160	2500 nit	3000:1	24/7	IP56 Certified	2 DP1.2 @UHD 60Hz, 2 HDMI1.4 @UHD 30Hz, HDBaseT, HDCP1.4, USB 2.0, Stereo Mini Jack (out), RS232C (In), RJ45 (In), HDBaseT	-
ОМН	32"	1920 x 1080	1000 nit	3000:1	24/7	-	1 DP, 2 HDMI, HDCP1.4, USB 2.0, Stereo Mini Jack (out), RS232C (In/Out), RJ45 (In/Out), HDBaseT	Built-in MagicInfo Player S4, SSSP 4.0
OMD-W	46", 55", 75"	1920 x1080	2500 nit	5000:1	24/7	-	Analog D-SUB, DVI-D, Display Port 1.2, 2 HDMI, Component (CVBS Common), HDCP1.4, USB 2.0, Stereo Mini Jack, RS232C (In/Out), RJ45	Built-in MagicInfo Player S2, SSSP 2.0

Interactive Signage

	Screen Size	Resolution	Brightness	Touch Type	Touch	Connectivity	Operating System	S/W	Remark
Flip	55"	3,840 x 2,160 (Landscape) 2,160 x 3,840 (Portrait)	300 nit	Inglass Touch	4 drawing, Passive Pen	HDMI1, Touch Out1, USB 2	Tizen 3.0	Flip S/W	Moving Stand with advanced Pivot
QBH-TR	65", 75"	3,840 x 2,160	300 nit	IR Touch	4 drawing (SoC) 10 drawing (External Windows PC)	HDMI 3 (2xRear, 1xFront), DVI-D, DP, USB 3 (2xRear, 1xFront), PC USB (Front), Touch Out1	Tizen 3.0	MagicIWB S5	-

SMART LED Signage

	Pixel Pitch	Diode Type	Peak Brightness*	Contrast Ratio	Certification	Cabinet Size	Weight	Service	IP Rating
IFJ	P1.2	Surface Mount Device	1200 nit	3000:1 (TBD)	EMC Class B, Safety 60950-1	806x453x75mm (LxHxD, per cabinet)	11kg/cabinet	Front Service and/or Rear Service	IP20
IFH	P1.5, 2.0, 2.5	Surface Mount Device	1600 nit(P1.5) 2400 nit(P2.0, 2.5)	5000:1	EMC Class A, Safety 60950-1	480x540x65mm (LxHxD, per cabinet)	5.8kg/cabinet	Front Service and/or Rear Service	IP20
IFH-	P2.5, 4.0, 6.0	Surface Mount Device	2400 nit	5000:1	EMC Class A, Safety 60950-1	480x720x65mm (LxHxD, per cabinet)	7.4kg/cabinet	Front Service and/or Rear Service	IP20

*When Dynamic Peaking is applied

Business Monitor

	Screen Size	Flat/Curved	Resolution	Brightness	Viewing Angle	Connectivity	USB-C	Eye Saver Mode
CJ89	43", 49"	Curved	3840x1080(49") 3840x1200(43")	300cd/m2	178°(H)/178°(V)	HDMI, DP, USB Hub	Yes(2EA)	Yes
CHG90	49"	Curved	3840x1080	up to 600cd/m2 (HDR)	178°(H)/178°(V)	HDMI 2, DP, mDP, USB Hub	-	Yes
CH89	34"	Curved	3440x1440	300cd/m2	178°(H)/178°(V)	HDMI, DP, USB Hub	Yes	Yes
UH85	32"	Flat	3840x2160	250cd/m2	178°(H)/178°(V)	HDMI 2, DP, mDP, USB Hub	-	Yes
SH85	27", 23.8"	Flat	2560x1440	350cd/m2	178°(H)/178°(V)	HDMI, DP, USB Hub	Yes	Yes
SH65	24", 27"	Flat	1920x1080	250cd/m2	178°(H)/178°(V)	HDMI, DP, D-SUB, USB Hub	-	Yes
SE650	24"	Flat	1920x1080	250cd/m2	178°(H)/178°(V)	HDMI, DP, D-SUB, USB Hub	-	Yes
SE450	24", 27"	Flat	1920x1080	250cd/m2	170°(H)/160°(V)	HDMI, DP, D-SUB, USB Hub	-	Yes

About Samsung

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For more information

For more information about Samsung Interactive Display, SMART LED Signage, SMART Signage, and Business Monitor, visit www.samsung.com/business or www.samsung.com/displaysolutions

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