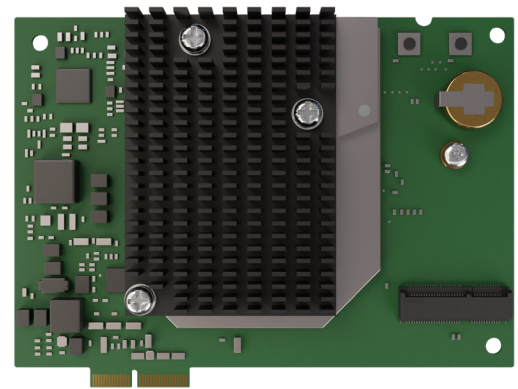# BrightSign® HS5

SoC integration solution powered by BrightSignOS™

BrightSign HS5 enables qualified screen manufacturers to integrate powerful BrightSign technology and deliver all-in-one display solutions for commercial digital signage applications. BrightSign HS5 acts as a System on a Chip (SoC) solution ready to be built directly into small and large format displays. Based on the LS5 players, two HS5 models are offered in either Full HD or 4K resolutions and provide standard motion graphics performance which supports standard widgets and animations. BrightSign HS5 runs on BrightSignOS, the only purpose-built operating system delivering unrivaled security & reliability for all digital signage experiences.

Features

- Enables qualified screen manufacturers to integrate BrightSign technology for SoC displays
- Streamlines installations by minimizing cabling and setup time with an all-in-one solution
- Embeds into small and large format displays with model options for Full HD or 4K
- Offers standard motion graphics performance to play popular motion graphics
- Delivers all the signage features BrightSign offers in an SoC solution
- Integrates into unique form factors including round, square, ultra-wide, and ultra-narrow
- Low-power, fan-less design*
- Single edge connector for all host I/O that mates with industry-standard M.2 sockets
- HDMI output with CEC support
- Vast connectivity choices to integrate including GPIO, UDP, USB-A, Serial, IR, 100baseT Ethernet, and S/PDIF digital audio
- Supports an optional dual antenna Wi-Fi/Bluetooth module
- Offers more power, flexibility, and purpose-built capabilities than other SoC solutions
- Compatible with all BrightSign software, services, and integrated CMS solutions
- Powered by BrightSignOS™ delivering legendary security, reliability, and uptimes
- Includes Control Cloud for real-time device monitoring and management anywhere, anytime
- Integrated with a huge global network of top CMS partners

*Requires a heatsink or bonded thermal solution to improve thermal range

Specifications

MODEL	HS125 Expanded I/O	HS145 4K Expanded I/O
HTML5 & VIDEO ENGINE		
HTML5 Performance Level	Mainstream Plays standard HTML widgets & graphic animations	
Single 4K60p video decoding		X (10-bit)
Full HD video decoding	X	X
Dual HD video decode		X
HD images & graphics	X	X
MEDIA FORMATS & RESOLUTIONS		
4K Video codecs: H.265 and H.264		X
4K Video Containers: .ts, .mov, .mp4, .mkv		X
Full HD Video Codecs: H.265, H.264 (MPEG-4, Part 10), MPEG-2	X	X
Full HD Video Containers: .ts, .mpg, .vob, .mov, .mp4, .m2ts	X	X
4K Video Resolutions: 4096x2160x23.97/24/25/29.97/30/50/59.94/60p 3840x2160x23.97/24/25/29.97/30/50/59.94/60p		X
Full HD Resolutions: 1920x1080x23.97/24/25/29.97/30/50/59.94/60p	X	X
Supports additional & customizable resolutions: includes unique, non-standard aspect ratios at various frame rates	X	X
Images: BMP, JPEG, PNG	X	X
Audio: MP2, MP3, AAC and WAV (AC3 is passed through)	X	X
HTML5: .html, Chromium-based, CSS, JavaScript, WebGL	X	X
HARDWARE INTERFACES		
HDMI Outputs	1	1
HDMI 1 Output:	X (HDMI 2.0a)	X (HDMI 2.0a)
Ethernet:	X (10/100)	X (10/100)
USB-A: provides 5V/1A power to peripheral devices	X	X
GPIO	X (4 bi-directional ports)	X (4 bi-directional ports)
IR: In / Out	X	X
Serial: RS-232	X	X
Audio: (Analog or SPDIF)	X	X
MicroSD	X	X
Optional Wi-Fi/Bluetooth: E Key M.2 Interface for WD-105 module	X	X
Reset & Service Buttons	X	X
Real Time Clock with 14-day life	X	X
ACCESSORIES		
BP200 & BP900 USB Button Pads	X	X
Micro SD Class 10 cards (various capacities)	X	X
WD-104 Dual Antenna Wireless/Bluetooth Module	X	X
BrightSign Mobile USB Modem	X	X
SOFTWARE & SERVICES		
BrightSignOS	X	X
Free BrightAuthor:connected or BrightAuthor software	X	X
Free Control Cloud	X	X
Optional Subscription-based BSN.cloud	X	X
Optional BrightSign Mobile Service	X	X
MISCELLANEOUS		
Dimensions (WxDxH)	100 x 70 x 14.25 mm	100 x 70 x 14.25 mm
Player Weight	TBD	TBD
Power	12V / 1.5A	12V / 1.5A
1 year warranty, parts and labor*	X	X

*2 year warranty, parts and labor, for units shipped from an EU or UK distribution center and to an EU or UK address.